

# Prof. Stefano Chessa

## Curriculum vitae

Professore Ordinario  
Dipartimento di Informatica  
Università di Pisa  
Largo B. Pontecorvo 3  
56127 Pisa  
tel. +39 050 2213122  
RESEARCHER ID: A-6837-2012  
SCOPUS ID: 6701590804

ORCID ID:



### Studi

5 Marzo 1999	Consegue il Dottorato di Ricerca in Informatica presso l'Università di Pisa. Titolo della tesi: <i>Self-Diagnosis of Grid-Interconnected Systems, with Application to Self-Test of VLSI Wafers</i> (TD-2/99 University of Pisa, Italy, March 1999) Supervisore: Prof. Piero Maestrini. Revisori: Prof. Arun K. Somani (Iowa State University, USA) e Prof. Miroslav Malek (Humboldt University, Berlino).
18 Febbraio 1994	Consegue la Laurea in Scienze dell'Informazione con Lode presso l'Università di Pisa. Titolo della tesi: <i>Autodiagnosi di Array Processor con una Strategia Parzialmente Adattiva</i> . Relatore: Prof. Piero Maestrini.

### Carriera accademica e posizioni ricoperte

10/2020 – 9/2023	Presidente del Corso di Laurea Magistrale in Cybersecurity
2020 –	Membro del consiglio di master Industry 4.0 Design – Università di Pisa
4/2019 –	Membro del consiglio direttivo del CINI – Consorzio Interuniversitario Nazionale per l'Informatica.
2/12/2019	Prende servizio come professore ordinario (INF/01) presso il Dipartimento di Informatica dell'Università di Pisa.
12/2018 – 12/2021	Membro dell'assemblea dei soci del Centro di Competenza ARTES 4.0 (Industria 4.0) – designato in rappresentanza dell'Università di Pisa. Nell'ambito del Centro di Competenza è coordinatore del "Training Node" dell'Università di Pisa.
11/2018 – 10/2021	Membro del Comitato Spin-off di Ateneo – Università di Pisa. Decreto Rettorale 1903/2018, prot. 0068676/2018 del 30/10/2018.
29/12/2014	Prende servizio come professore associato (INF/01) presso il Dipartimento di Informatica dell'Università di Pisa.
2015 – 2020	Vice-presidente del Consiglio Aggregato del Corso di Laurea e Laurea Magistrale in Informatica dell'Università di Pisa
da 10/2013 –	Membro del Collegio del Dottorato in Informatica dell'Università di Pisa.
da 1/2003 –	Associato alla ricerca presso l'Istituto di Scienze e Tecnologie dell'Informazione del CNR, Pisa.
1/9/2000	Prende servizio come ricercatore (INF/01) presso il Dipartimento di Informatica dell'Università di Pisa.

### Attività didattica

Dal 2000	È stato relatore di: <ul style="list-style-type: none"><li>• 42 tesi di Laurea Magistrale in Informatica (o equivalenti)</li><li>• 23 tesi o tirocini per la Laurea in Informatica</li><li>• 8 tesi di Dottorato di Ricerca in Informatica</li></ul>
Dal 2000	Ha avuto affidamenti didattici per i seguenti corsi: <ul style="list-style-type: none"><li>• Sistemi Operativi (Laurea in Informatica)</li><li>• Mobile and Cyber-Physical Systems (Laurea Magistrale in informatica)</li><li>• Reti di Calcolatori e Laboratorio di Reti (Laurea in Informatica Applicata)</li></ul>

- Reti Mobili: reti ad hoc e di sensori (Laurea Specialistica in Tecnologie Informatiche)
- Data and System Security (Laurea Magistrale in Cybersecurity)

## Attività organizzativa

Membro editorial board	<ul style="list-style-type: none"> <li>• rivista <i>Journal on Ambient Intelligence and Smart Environments</i> da Ottobre 2012. ISSN 1876-1364.</li> <li>• rivista <i>Sensors</i> nel biennio 2018-19. ISSN 1424-8220.</li> <li>• rivista <i>International Journal of Distributed Sensor Networks</i> dal 2010 al 2012. ISSN: 1550-1477.</li> </ul>
Guest editor	<ul style="list-style-type: none"> <li>• special issue "Evaluating Ambient Assisted Living Components and Systems" per la rivista <i>Journal of Ambient Intelligence and Smart Environments (JAISE)</i>, volume 7, issue 3, 2015</li> <li>• libro: "Evaluating AAL Systems Through Competitive Benchmarking - International Competitions and Final Workshop", apparso sulla serie <i>Communications in Computer and Information Science (CCIS) 362</i>, Springer, Germany, 2013</li> <li>• libro: "Evaluating AAL Systems through Competitive Benchmarking Special theme on Indoor Localization and Tracking", apparso sulla serie <i>Communications in Computer and Information Science (CCIS) 309</i>, Springer, Germany, 2012</li> </ul>
Coordinamento gruppi di ricerca	<ul style="list-style-type: none"> <li>• focus group su "Well-being, e-health &amp; smart food" del Laboratorio Nazionale su Smart Cities del CINI (Consiglio Interuniversitario Nazionale per l'Informatica).</li> <li>• Responsabile di nodo (Università di Pisa) per le attività di Training per il Centro di Competenza ad alta specializzazione ARTES 4.0 (in ambito Industria 4.0).</li> </ul>
Conferenze:	<ul style="list-style-type: none"> <li>• Co-chair, insieme al Dr. Michele Girolami dell'ISTI -CNR e al Prof. Swades De dell'Indian Institute of Technology, del workshop on Green Solution for Smart Environment (SAGE) presso la International Conference on Communications (ICC), Vancouver (online), 14-23 Giugno 2021.</li> <li>• General co-chair della conferenza "5th Italian Conference on ICT for Smart Cities and Communities" (i-Cities), Pisa, 18-20 Settembre 2019. <a href="http://icities2019.unipi.it">http://icities2019.unipi.it</a>.</li> <li>• Track chair della track: "E-health &amp; Assisted Living", 3rd Italian Conference on ICT for smart cities &amp; communities (I-CiTies '17), 27-29 September 2017, Bari, Italia. <a href="http://sisinflab.poliba.it/icities2017/">http://sisinflab.poliba.it/icities2017/</a></li> <li>• Program chair della conferenza i-Cities, Benevento, 29-30 Settembre 2016. <a href="http://www.unisannio.it/I-CiTies2016/venue.html">http://www.unisannio.it/I-CiTies2016/venue.html</a></li> <li>• Co-presidente del comitato di programma della conferenza: "Tecnologie informatiche per una gestione sostenibile dell'agricoltura, dell'ambiente e della biodiversità" (TI4AAB), Certosa di Calci (PI), 7-8 Luglio 2016. <a href="http://www.ti4aab.org">http://www.ti4aab.org</a></li> <li>• Track chair della track: "E-health &amp; Assisted Living", annual workshop on ICT for smart cities &amp; communities (I-CiTies '15). 29-30 October 2015, Palermo, Italia. <a href="http://dicgim.unipa.it/networks/icities2015/">http://dicgim.unipa.it/networks/icities2015/</a></li> <li>• Co-presidente del comitato di programma della conferenza: "Innovazione, tecnologie informatiche e agricoltura: aspetti pratici di convergenza", CRA-VIV – Pescia (PT), 19 giugno 2015</li> <li>• Track chair della track: "Advanced Networking and Applications", 17th IEEE International Conference on Computational Science and Engineering (CSE '14), 19-21 Dicembre 2014, Chengdu, China. <a href="http://umc.uestc.edu.cn/conference/CSE2014/">http://umc.uestc.edu.cn/conference/CSE2014/</a></li> <li>• General Chair della competizione EvAAL – Evaluating AAL systems through competitive benchmarking, 2012 e 2013</li> <li>• Presidente dello Steering Board della competizione EvAAL – Evaluating AAL systems through competitive benchmarking – dal 2010 al 2013. <a href="http://evaal.aaloo.org">http://evaal.aaloo.org</a></li> <li>• Dal 2000 ad oggi è stato membro del comitato di programma di più di 130 conferenze o workshop internazionali.</li> </ul>

## Attività Scientifica

Informazioni generali

L'attività scientifica si colloca nelle aree delle reti di comunicazione e dell'Internet of Things, sistemi mobili e cyber-fisici, mobile crowdsensing, pervasive e ubiquitous computing e applicazioni dell'informatica alle tecnologie assistive, e-health e precision agriculture.

Nel corso della propria attività scientifica ha pubblicato 170 articoli indicizzati, di cui oltre 70 su riviste internazionali con referee.  
Ha vinto 5 best "paper award" per altrettante pubblicazioni su conferenza.

Indici Bibliometrici	Indici bibliometrici:		
		Scopus	Google Scholar
	H-index	28	34
	Numero di pubblicazioni indicizzate	187	n.a.
	Citazioni totali	3846	6585
Finanziamenti e progetti	<ul style="list-style-type: none"> <li>• Responsabile del Nodo di Training (TNN) dell'Università di Pisa per il Centro di Competenza ARTES 4.0 "Advanced Robotics and enabling digital Technologies &amp; Systems".</li> <li>• Responsabile scientifico per l'Università di Pisa del progetto POR FESR Regione Toscana: "High Tech – House Garden" – HT-HG (10/2017–7/2019), <a href="https://www.serra-hthg.it/">https://www.serra-hthg.it/</a>.</li> <li>• Responsabile scientifico per l'Università di Pisa del progetto EU FP7 "Decrease of cOgnitive decline, malnutRition and sedEntariness by elderly empowerment in lifestyle Management and social Inclusion" (DOREMI, contratto no. 611650), finanziato nel periodo Novembre 2013 – Ottobre 2016. Coordinatore del progetto: Istituto di Fisiologia Clinica del CNR.</li> <li>• Responsabile scientifico per l'Università di Pisa del progetto EU FP7 "Robotics UBiquitous COgnitive Network" (RUBICON, contratto no. 269914), finanziato nel periodo Aprile 2011 – Marzo 2014. Coordinatore del progetto: University College Dublin.</li> <li>• Co-responsabile scientifico del progetto (insieme al Dott. Giuseppe Amato) "Management of Data in Wireless Sensor networks" (MaD-WiSe), progetto Curiosity-Driven Finanziato dall'Istituto di Scienze e Tecnologia dell'Informazione – CNR, nel periodo 2004-2005.</li> </ul>		
Partecipazione a progetti di ricerca	<ul style="list-style-type: none"> <li>• Progetto EU Prima "Development and Optimization of Halophyte-based Farming systems in salt-affected Mediterranean Soils" (HALOFARMS). Finanziato dal 11/2020 al 10/2023.</li> <li>• Progetto H2020 TEACHING "A computing toolkit for building efficient autonomous applications leveraging humanistic intelligence", ICT-01-2019-RIA. Progetto finanziato dal 2020 al 2022.</li> <li>• Progetto EU FP7 CIP-Thematic Network "European Network Group for Ageing Well and its Deployment" (ENGAGED, contract no. 325172). Progetto finanziato nel periodo Febbraio 2013-Gennaio 2015. Key person per l'unità operativa dell'ISTI-CNR.</li> <li>• Progetto EU FP7 Integrated Project "Universal Open Platform and Reference Specification for Ambient Assisted Living" (universAAL, contratto no. 247950).</li> <li>• Progetto EU FP6 Integrated Project "PERceptive Spaces prOmoting iNdependent Aging" (PERSONA, contratto no. IST-045459).</li> <li>• Progetto EU FP6 Strep project "Secure Middleware for Embedded Peer-to-Peer Systems" (SMEPP, contratto no. 033563).</li> <li>• Progetto MSE Industria 2015 EASYRIDER – sistema per l'integrazione di infrastrutture stradali, veicoli e servizi per il miglioramento dell'infomobilità e della sicurezza stradale a supporto della mobilità sostenibile. Capofila Magneti Marelli.</li> <li>• Progetto EU FP6 Network of Excellence "Interactive Media with Personal Networked Devices" (InterMedia, contratto no. 38419).</li> <li>• Progetto EU FP6 Network of Excellence in Satellite Networks (Satnex, contratto no. 27393) e SatNex-II.</li> <li>• Progetto MIUR "Infrastrutture software per reti ad-hoc orientate ad ambienti difficili" (IS-MANET).</li> </ul>		

## Elenco delle pubblicazioni

### Riviste

- J78. Alexander Kocian, Stefano Chessa, "Iterative Probabilistic Performance Prediction for Multiple IoT Applications in Contention", IEEE Internet of Things Journal, to appear, 2022. DOI: <https://doi.org/10.1109/JIOT.2022.3142324>
- J77. Antonio Caruso, Stefano Chessa, Soledad Escolar, Jesús Barba and Juan Carlos López, "Collection of Data with Drones in Precision Agriculture: Analytical Model and LoRa Case Study", IEEE Internet of Things Journal, 8(22):16692-16704, 2021. DOI: <https://doi.org/10.1109/JIOT.2021.3075561>

- J76. Michele Girolami, Dimitri Belli, Stefano Chessa, Luca Foschini, "How Mobility and Sociality Reshape the Context: A Decade of Experience in Mobile CrowdSensing", *Sensors* 2021, 21, 6397, DOI: <https://doi.org/10.3390/s21196397>
- J75. Mariasole Bondioli, Stefano Chessa, Antonio Narzisi, Susanna Pelagatti, Michele Zoncheddu, "Towards motor-based early detection of autism red flags: enabling technology and exploratory study protocol", *Sensors* 2021, 21(6):1-15, art.1971. DOI: <https://doi.org/10.3390/s21061971>
- J74. Dimitri Belli, Stefano Chessa, Luca Foschini, Michele Girolami, "The Rhythm of the Crowd: Properties of Evolutionary Community Detection Algorithms for Mobile Edge Selection", *Pervasive and Mobile Computing* 67, 2020. DOI: <https://doi.org/10.1016/j.pmcj.2020.101231>
- J73. Dimitri Belli, Stefano Chessa, Antonio Corradi, Luca Foschini, Michele Girolami, "Optimization Strategies for the Selection of Mobile Edges in Hybrid CrowdSensing Architectures", *Computer Communications*, 157:132-142, 2020. DOI: <https://doi.org/10.1016/j.comcom.2020.04.006> .
- J72. Alexander Kocian, Giulia Carmassi, Fatjon Cela, Luca Incrocci, Paolo Milazzo, Stefano Chessa, "Bayesian sigmoid-type time series forecasting with missing data for green house crops", *Sensors* 20(11), 2020, DOI:10.3390/s20113246
- J71. Paolo Baronti, Paolo Barsocchi, Stefano Chessa, Antonino Crivello, Michele Girolami, Fabio Mavilia, Filippo Palumbo, "Remote Detection of Social Interactions in Indoor Environments through Bluetooth Low Energy Beacons", *Journal of Ambient Intelligence and Smart Environments*, 12(3):203-217, 2020. DOI: 10.3233/AIS-200560.
- J70. Dimitri Belli, Stefano Chessa, Luca Foschini, Michele Girolami, "A Probabilistic Model for the Deployment of Human-enabled Edge Computing in Massive Sensing Scenarios", *IEEE IoT Journal*, 7(3):2421-2431, 2020. DOI: 10.1109/JIOT.2019.2957835.
- J69. Alexander Kocian, Daniele Massa, Samantha Cannazzaro, Luca Incrocci, Sara Di Lonardo, Paolo Milazzo, Stefano Chessa, "Dynamic Bayesian network for crop growth prediction in greenhouses", *Computers and Electronics in Agriculture* 169, February 2020, pp. 1-8. DOI: 10.1016/j.compag.2019.105167.
- J68. Alexander Kocian, Stefano Chessa, Wilko Grolman, "Monitoring Practitioner's Skills in Pure-Tone Audiometry", *International Journal of E-Health and Medical Communications*, 11(2):38-68, 2020. DOI: 10.4018/IJEHMC.2020040103.
- J67. Dimitri Belli, Stefano Chessa, Burak Kantarci, Luca Foschini, "Towards Fog-Based Mobile Crowdsensing Systems: State of the Art and Opportunities", *IEEE Communications Magazine* 57(12):78-83, 2019. DOI: 10.1109/MCOM.001.1900003.
- J66. Parvaneh Parvin, Fabio Paternò, Maurits Kaptein, Stefano Chessa, "Personalized Real-time Anomaly Detection and Health Feedback for Older Adults", *Journal of Ambient Intelligence and Smart Environments*, 11(5):453-469, 2019. DOI: 10.3233/AIS-190536.
- J65. Paolo Bellavista, Dimitri Belli, Stefano Chessa, Luca Foschini, "A Social-driven Edge Computing Architecture for Mobile Crowd Sensing Management", *IEEE Communications Magazine*, 57(4):68-73, 2019. DOI: 10.1109/MCOM.2019.1800637.
- J64. Chiara Bodei, Stefano Chessa, Letterio Galletta, "Measuring security in IoT communications", *Theoretical Computer Science* 764:100-124, 2019. DOI:10.1016/j.tcs.2018.12.002.
- J63. Carles Gomez, Stefano Chessa, Anthony Fleury, George Roussos and Davy Preuveneers, "Internet of Things for Enabling Smart Environments: a Technology-Centric Perspective", Tenth Anniversary Issue, *Journal of Ambient Intelligence and Smart Environments* 11(1), 23-43, 2019. IOS Press. DOI: 10.3233/AIS-180509.
- J62. Michele Girolami, Dimitri Belli, Stefano Chessa, "Collaborative Service Discovery in Mobile Social Networks", *Journal of Network and Systems Management* 27(1), 233-268, 2019. DOI: 10.1007/s10922-018-9465-0
- J61. Paolo Baronti, Paolo Barsocchi, Stefano Chessa, Fabio Mavilia, Filippo Palumbo, "Indoor Bluetooth Low Energy Dataset for Localization, Tracking, Occupancy, and Social Interaction", *Sensors* 2018, 18(12), 4462. DOI: 10.3390/s18124462.
- J60. Parvaneh Parvin, Stefano Chessa, Marco Manca, Fabio Paternò, "Real-Time Anomaly Detection in Elderly Behavior with the Support of Task Models", *Proceedings of the ACM on Human-Computer Interaction - EICS 2*, article number 15, pp.18, June 2018. DOI: 10.1145/3229097
- J59. Alexander Kocian, Guido Cattani, Stefano Chessa and Wilko Grolman, "An Artificial Patient for Pure-Tone Audiometry", *EURASIP Journal on Audio, Speech, and Music Processing (2018)* 2018:8. DOI: 10.1186/s13636-018-0131-y.
- J58. Antonio Caruso, Stefano Chessa, Soledad Escolar, Xavier del Toro and Juan Carlos López, "A Dynamic Programming Algorithm for High-Level Task Scheduling in Energy Harvesting IoT", *IEEE Internet of Things Journal*, 5(3):2234-2248 (2018), DOI: 10.1109/JIOT.2018.2828943.
- J57. Rita Pucci, Alessio Micheli, Stefano Chessa, "Wild Animals' Biologging Through Machine Learning Models", *Atti Soc. tosc. Sci. nat., Mem., Supplemento Serie B.*, 125:61-66, 2018, DOI: 10.2424/ASTSN.M.2018.9.

- J56. Paolo Bellavista, Stefano Chessa, Luca Foschini, Leo Gioia, Michele Girolami, "Human-enabled Edge Computing: Exploiting the Crowd as a Dynamic Extension of Mobile Edge Computing", *IEEE Communications Magazine*, 56(1):149-155, 2018. DOI: 10.1109/MCOM.2017.1700385.
- J55. Stefano Chessa, Alessio Micheli, Rita Pucci, Jane Hunter, Gemma Carroll, Rob Harcourt, "A Comparative Analysis of SVM and IDNN for Identifying Penguin Activities", *Applied Artificial Intelligence*, 31(5-6):453-471, 2017. DOI: 10.1080/08839514.2017.1378162
- J54. Davide Bacciu, Stefano Chessa, Claudio Gallicchio, Alessio Micheli, Luca Pedrelli, Erina Ferro, Luigi Fortunati, Davide La Rosa, Filippo Palumbo, Federico Vozi, Oberdan Parodi, "A Learning System for Automatic Berg Balance Scale Score Estimation", *Engineering Applications of Artificial Intelligence (EAAI)*, 66:60-74, 2017. DOI: 10.1016/j.engappai.2017.08.018
- J53. Filippo Palumbo, Davide La Rosa, Erina Ferro, Davide Bacciu, Claudio Gallicchio, Alessio Micheli, Stefano Chessa, Federico Vozi, Oberdan Parodi, "Reliability and human factors in ambient assisted living environments – the DOREMI case study", *Journal of Reliable Intelligent Environments*, 3(3):139–157, 2017. DOI: 10.1007/s40860-017-0042-1.
- J52. Stefano Chessa, Michele Girolami, Luca Foschini, Raffaele Ianniello, Antonio Corradi, Paolo Bellavista, "Mobile Crowd Sensing Management with the ParticipAct Living Lab", *Pervasive and Mobile Computing*, 38(2017):200-214. DOI: 10.1016/j.pmcj.2016.09.005
- J51. Amrita Ghosal, Subir Halder, Stefano Chessa, "Secure Key Design Approaches using Entropy Harvesting in Wireless Sensor Network: A Survey", *Journal of Network and Computer Applications*, 78(2017):216-230. DOI: 10.1016/j.jnca.2016.11.019.
- J50. Soledad Escolar, Stefano Chessa, Jesús Carretero, "Quality of Service Optimization in Solar Cells-based Energy Harvesting Wireless Sensor Networks", *Energy Efficiency*, 10(2017):331-357. DOI: 10.1007/s12053-016-9458-3
- J49. Michele Girolami, Stefano Basagni, Francesco Furfari, Stefano Chessa, "SIDEMAN: Service Discovery in Mobile Social Networks", *Ad Hoc & Sensor Wireless Networks* 34(2016):1-39.
- J48. Stefano Chessa, Antonio Corradi, Luca Foschini, Michele Girolami, "Empowering Mobile Crowdsensing through Social and Ad-Hoc Networking", *IEEE Communications Magazine, Feature Topic on Social and Mobile Solutions in Ad Hoc and Sensor Networking Series on Ad-hoc and Sensor Networks*, 54(7):108-114, 2016. DOI: 10.1109/MCOM.2016.7509387.
- J47. Roberto Barbuti, Stefano Chessa, Alessio Micheli, Rita Pucci "Localizing tortoise nests by neural networks", *PLOS One* March 17, 2016, p.27, DOI: 10.1371/journal.pone.0151168.
- J46. Giuseppe Amato, Davide Bacciu, Mathias Broxvall, Stefano Chessa, Sonya Coleman, Maurizio Di Rocco, Mauro Dragone, Claudio Gallicchio, Claudio Gennaro, Héctor Lozano, Thomas Martin McGinnity, Alessio Micheli, Anjan K. Ray, Arantxa Renteria, Alessandro Saffiotti, David Swords, Claudio Vairo, Philip Vance, "Robotic Ubiquitous Cognitive Ecology for Smart Homes", *Journal of Intelligent and Robotic Systems: Theory and Applications*, 80(2015):57-81, DOI 10.1007/s10846-015-0178-2
- J45. Mauro Dragone, Giuseppe Amato, Davide Bacciu, Stefano Chessa, Sonya Coleman, Maurizio Di Rocco, Claudio Gallicchio, Claudio Gennaro, Hector Lozano, Liam Maguire, Martin McGinnity, Alessio Micheli, Arantxa Renteria, Alessandro Saffiotti, Claudio Vairo, Philip Vance, "A Cognitive Robotic Ecology Approach to Self-Configuring and Evolving AAL Systems", *Engineering Applications of Artificial Intelligence*, 45(2015): 269-280. DOI: 10.1016/j.engappai.2015.07.004
- J44. Michele Girolami, Stefano Chessa, Antonio Caruso, "On Service Discovery in Mobile Social Networks: Survey and Perspectives", *Computer Networks*, 88 (2015):51-71, DOI 10.1016/j.comnet.2015.06.006
- J43. Stefano Chessa, Soledad Escolar, Susanna Pelagatti, Jesús Carretero, "Multi-Dimensional Recursive Routing with Guaranteed Delivery in Wireless Sensor Networks", *Computer Communications*, 57 (2015):85-99, DOI: 10.1016/j.comcom.2014.10.007
- J42. Giuseppe Amato, Stefano Chessa, Claudio Gennaro, Claudio Vairo, "Querying Moving Events in Wireless Sensor Networks", *Pervasive and Mobile Computing*, 16 (2015):51-75, DOI: 10.1016/j.pmcj.2014.01.008.
- J41. Michele Albano, Stefano Chessa, "Replication vs Erasure Coding in Data Centric Storage for Wireless Sensor Networks", *Computer Networks*, 77 (2015):42-55, DOI: 10.1016/j.comnet.2014.11.018.
- J40. Francesco Furfari, Michele Girolami, Stefano Lenzi, Stefano Chessa, "A Service-Oriented ZigBee Gateway for Smart Environments", *Journal of Ambient Intelligence and Smart Environments*, 6 (2014):691-705, DOI: 10.3233/AIS-140287.
- J39. Stefano Chessa, Susanna Pelagatti, Nicoletta Triolo, "Engineering energy efficient visual sensor network applications using skeletons", *International Symposium on High-level Parallel Programming and Applications*, Paris 1-2 July 2013; in *International Journal of Parallel Programming*, 42(4):663-680 (2014), DOI: 10.1007/s10766-013-0260-y.

- J38. Soledad Escolar, Jesús Carretero, Maria-Cristina Marinescu, Stefano Chessa, "Estimating Energy Savings in Smart Street Lighting by using an Adaptive Control System", *International Journal of Distributed Sensor Networks*, vol. 2014, Article ID 971587, 17 pages (2014) DOI:10.1155/2014/971587.
- J37. Davide Bacciu, Paolo Barsocchi, Stefano Chessa, Claudio Gallicchio, Alessio Micheli, "An Experimental Characterization of Reservoir Computing in Ambient Assisted Living Applications", *Neural Computing Applications*, 24(6):1451-1464 (2014), DOI: 10.1007/s00521-013-1364-4.
- J36. Soledad Escolar, Stefano Chessa, Jesús Carretero, "Energy-Neutral Networked Wireless Sensors", *Simulation Modelling Practice and Theory*, 43:1-15 (2014), DOI: 10.1016/j.simpat.2014.01.002.
- J35. Soledad Escolar, Stefano Chessa, Jesús Carretero, "Energy Management in Solar Cells Powered Wireless Sensor Networks for Quality of Service Optimization", *Personal and Ubiquitous Computing*, special issue on Internet of Things, 18:449-464 (2014), DOI: 10.1007/s00779-013-0663-1.
- J34. Paolo Barsocchi, Stefano Chessa, Alessio Micheli, Claudio Gallicchio, "Forecast-Driven Enhancement of received Signal Strength (RSS)-Based Localization Systems", *International Journal of Geo-Information*, special issue in "Indoor Positioning and Navigation", 2(4):978-995 (2013), DOI: 10.3390/ijgi2040978.
- J33. Paolo Barsocchi, Stefano Chessa, Francesco Furfari, Francesco Potortì, "Evaluating Ambient Assisted Living solutions: the localization competition", *IEEE Pervasive Computing*, 12(4):72-79 (2013), DOI: 10.1109/MPRV.2013.23.
- J32. Michele Amoretti, Sergio Coppelli, Folker Wientapper, Francesco Furfari, Stefano Lenzi, and Stefano Chessa, "Sensor Data Fusion for Activity Monitoring in the PERSONA Ambient Assisted Living Project", *Journal of Ambient Intelligence and Humanized Computing*, 4(1):67-84 (2013), DOI 10.1007/s12652-011-0095-6.
- J31. Paolo Barsocchi, Stefano Chessa, Ivan Martinovic and Gabriele Oligeri, "A Cyber-Physical Approach to Secret Key Generation in Smart Environments", *Journal of Ambient Intelligence and Humanized Computing*, 4(1):1-16 (2013), DOI 10.1007/s12652-011-0051-5.
- J30. Juan Antonio Álvarez-García, Paolo Barsocchi, Stefano Chessa, Dario Salvi, "Evaluation of localization and activity recognition systems for ambient assisted living: The experience of the 2012 EvAAL competition", *Journal of Ambient Intelligence and Smart Environments*, 5(1):119-132 (2013), DOI 10.3233/AIS-120192.
- J29. Stefano Chessa and Piero Maestrini, "Robust Distributed Storage of Residue Encoded Data", *IEEE Transactions on Information Theory*, 58(12): 7280 - 7294 (2012), DOI: 10.1109/TIT.2012.2216937.
- J28. Roberto Barbuti, Stefano Chessa, Alessio Micheli, Daniele Pallini, Rita Pucci, Giuseppe Anastasi, "Tortoise@: a System for Locating Tortoises During the Eggs Deposition Phase", *Atti Soc. tosc. Sci. nat., Mem., Serie B.*, 119:89-95 (2012), DOI: 10.2424/ASTSN.M.2012.09.
- J27. Soledad Escolar, Stefano Chessa, Jesús Carretero, and Maria-Cristina Marinescu, "Cross Layer Adaptation of Check Intervals in Low Power Listening MAC Protocols for Lifetime Improvement in Wireless Sensor Networks", *Sensors* 2012, 12, 10511-10535; DOI: 10.3390/s120810511. pp. 25.
- J26. Andréa Weber, Alexander Robert Kutzke, Stefano Chessa, "Energy-Aware Test Connection Assignment for the Self-Diagnosis of a Wireless Sensor Network", *Journal of the Brazilian Computer Society*, 18 (1):19-27 (2012), DOI: 10.1007/s13173-012-0057-7.
- J25. Paolo Barsocchi, Stefano Lenzi, Stefano Chessa, and Francesco Furfari, "Automatic Virtual Calibration of Range-Based Indoor Localization Systems", *Wireless Communications and Mobile Computing*, 12(17): 1546–1557 (2012), DOI: 10.1002/wcm.1085.
- J24. Gabriele Oligeri, Stefano Chessa, Roberto di Pietro, and Gaetano Giunta, "Robust and Efficient Authentication of Video Stream Broadcasting", *ACM Transactions on Information and System Security*, 14 (1):5 (2011), DOI: 10.1145/1952982.1952987.
- J23. Michele Albano, Stefano Chessa, Francesco Nidito, and Susanna Pelagatti, "Dealing with Non Uniformity in Data Centric Storage for Wireless Sensor Networks", *IEEE Transactions on Parallel and Distributed Systems*, 22 (8):1398-1406 (2011).
- J22. Gabriele Oligeri, Stefano Chessa and Gaetano Giunta, "Loss Tolerant Video Streaming Authentication in Heterogeneous Networks", *Computer Communications*, 34:1307-1315 (2011).
- J21. Farukh Nadeem, Stefano Chessa, E. Leitgeb, S. Zaman, "The Effects of Weather on the Life Time of Wireless Sensor Networks Using FSO/RF Communication", *Radio Engineering*, 19 (2):262-270 (2010).
- J20. Giuseppe Amato, Stefano Chessa, and Claudio Vairo "MaD-WiSe: A Distributed Stream Management System for Wireless Sensor Networks", *Software – Practice and Experience*, 40 (5): 431-451 (2010).
- J19. Michele Albano, Stefano Chessa, and Roberto di Pietro "A Model With Applications for Data Survivability in Critical Infrastructures", *Journal of Information Assurance and Security*, 4 (4): 629-639 (2009).
- J18. Giuseppe Amato, Antonio Caruso, and Stefano Chessa, "Application-Driven, Energy-Efficient Communication in Wireless Sensor Networks", *Computer Communications*, 32: 896–906 (2009).
- J17. Tomaso de Cola, Luca Ronga, Tommaso Pecorella, Paolo Barsocchi, Stefano Chessa, Erina Ferro, Alberto Gotta, Gabriele Oligeri, Francesco Potortì, Raffaello Secchi, Arjuna Sathiseelan, Maria Ángeles Vazquez Castro, José

- Antonio del Peral Rosado, Carlo Caini, and Rosario Firrincieli, "Communications and Networking over Satellites: SatNEx Experimental Activities and Testbeds", *International Journal of Satellite Communications and Networking*, Wiley, 27 (1): 1-33 (2009).
- J16. Bernhard Reiterer, Cyril Concolato, Janine Lachner, Jean Le Feuvre, Jean-Claude Moissinac, Stefano Lenzi, Stefano Chessa, Enrique Fernández Ferrá, Juan José González Menaya, and Hermann Hellwagner, "User-Centric Universal Multimedia Access in Home Networks", *The Visual Computer* 24 (7-9): 837-845 (2008)
- J15. Antonio Caruso, Stefano Chessa, and Piero Maestrini, "Worst-case Diagnosis Completeness in Regular Graphs Under the PMC Model", *IEEE Transactions on Computers*, 56 (7): 917-924 (2007)
- J14. Paolo Baronti, Prashant Pillai, Vince Chook, Stefano Chessa, Alberto Gotta, and Y. Fun Hu, "Wireless Sensor Networks: a Survey on the State of the Art and the 802.15.4 and ZigBee Standards", *Computer Communications*, 30 (7): 1655-1695 (2007).
- J13. Swades De, Antonio Caruso, Tamalika Chaira, and Stefano Chessa, "Bounds on Hop Distance in Greedy Routing Approach in Wireless Ad Hoc Networks", *International Journal on Wireless and Mobile Computing*, 1 (2): 131-140 (2006).
- J12. Luiz Carlos P. Albini, Antonio Caruso, Stefano Chessa, and Piero Maestrini, "Reliable Routing in Wireless Ad Hoc Networks: The Virtual Routing Protocol", *Springer Journal of Network and Systems Management*, 14 (3): 335-358 (2006).
- J11. Stefano Chessa and Piero Maestrini, "Fault Recovery Mechanism in Single-Hop Sensor Networks", *Computer Communications*, 28 (17): 1877-1886 (2005).
- J10. Paolo Santi and Stefano Chessa, "Reducing the Number of Sequential Diagnosis Iterations in Hypercubes", *IEEE Transactions on Computers*, 53 (1): 89-92 (2004).
- J9. Luiz Pessoa Carlos Albini, Stefano Chessa, and Piero Maestrini, "Diagnosis of Symmetric graphs Under the BGM Model", *Computer Journal*, 47 (1): 85-92 (2004).
- J8. Antonio Caruso, Stefano Chessa, Piero Maestrini, and Paolo Santi, "Fault Diagnosis of Grid Structures", *Theoretical Computer Science*, 290 (2): 1149-1174 (2003).
- J7. Stefano Chessa, Piero Maestrini, Balazs Sallay, Raffaele Tripiccion, Walter Errico, and Fabio Schifano, "Self-Diagnostic Tools of the APEmille Parallel Machine", *IEE Proceedings on Computers and Digital Techniques*, 149 (6): 273-281 (2002).
- J6. Antonio Caruso, Stefano Chessa, Piero Maestrini, and Paolo Santi, "Diagnosability of Regular Systems", *Journal of Algorithms*, 45 (2): 126-143 (2002).
- J5. Stefano Chessa and Paolo Santi, "Crash Faults Identification in Wireless Sensor Networks", *Computer Communications*, 25 (14): 1273-1282 (2002).
- J4. Antonio Caruso, Stefano Chessa, Piero Maestrini, and Paolo Santi, "Evaluation of a Diagnosis Algorithm for Regular Structures", *IEEE Transactions on Computers*, 51 (7): 850-865 (2002).
- J3. Stefano Chessa and Piero Maestrini, "Correct and Almost Complete Diagnosis of Processors Grids", *IEEE Transactions on Computers*, 50 (10): 1095-1102 (2001).
- J2. Stefano Chessa and Paolo Santi, "Operative Diagnosis of Graph-Based Systems with Multiple Faults", *IEEE Transactions on Systems, Man, and Cybernetics - Part A: Systems and Humans*, 31 (2): 112-119 (2001).
- J1. Govind Krishnamurthi, Stefano Chessa, and Arun Somani, "Fast Recovery from Database/Link Failures in Mobile Networks", *Computer Communications*, 23 (5-6): 561-574 (2000).

## Conferenze

- C120. Antonio Caruso, Stefano Chessa, Soledad Escolar, Fernando Rincón, Juan C. López, "Task Scheduling Stabilization for Solar Energy Harvesting Internet of Things Devices", *IEEE International Symposium on Computers and Communications (ISCC)*, Rhodes Island, Greece, June 30th-July 3rd 2022, pp. 6
- C119. Michele Girolami, Teodorico Pacini, Stefano Chessa, "Evaluation of a Location Coverage Model for Mobile Edge Computing", *IEEE International Conference on Communications (ICC) - Communication QoS, Reliability and Modeling Symposium*, Seoul, South Korea, May 16th – 20th 2022, pp.6
- C118. Michele Girolami, Emanuele Urselli, Stefano Chessa, "Encrypted Data Aggregation in Mobile CrowdSensing based on Differential Privacy", *IEEE International Conference on Pervasive Computing and Communications (PerCom)* – work in progress track, Pisa, Italy, March 21 th – 25th, 2022, pp.4
- C117. Michele Albano, Stefano Chessa, Kim Guldstrand Larsen, "A Model-Checking Static Analysis of Task-Based Energy Neutrality for Energy Harvesting IoT", *IEEE International Symposium on Computers and Communications (ISCC)*, Athens, Greece, September 5th – 8th 2021, pp. 7.
- C116. Marko Vuković, Daniele Mazzei, Stefano Chessa, Gualtiero Fantoni, "Digital Twins in Industrial IoT: a survey of the state of the art and of relevant standards", *IEEE International Conference on Communications (ICC) – Workshop on Future Industrial Network Protocols*, Montreal, Canada, 14-23 June 2021, pp.6.



- C115. Paolo Barsocchi, Dimitri Belli, Stefano Chessa, Luca Foschini, Michele Girolami, "Impact of Evolutionary Community Detection", IEEE Global Communications Conference, 7-11 December 2020, Taipei, Taiwan
- C114. Stefano Chessa, Luca Foschini, Michele Girolami, "Understanding Human Mobility for CrowdSensing Strategies with the ParticipAct Data Set", IEEE Global Communications Conference, 7-11 December 2020, Taipei, Taiwan
- C113. Juan C. Torrado, Ida Wold, Letizia Jaccheri, Susanna Pelagatti, Stefano Chessa, Javier Gomez, Gunnar Hartvigsen, Henriette Michalsen, "Developing Software for Motivating Individuals with Intellectual Disabilities to do Outdoor Physical Activity", the 42nd International Conference on Software Engineering (ICSE'20), Seoul, South Korea 23-29 May 2020.
- C112. Fabio Mavilia, Filippo Palumbo, Paolo Barsocchi, Stefano Chessa, Michele Girolami, "Remote Detection of Indoor Human Proximity using Bluetooth Low Energy Beacons", 15th International Conference on Intelligent Environments (IE'19), Rabat, Morocco, 24-27 June 2019, pp. 16-21. This paper received the "Best paper Award" of the conference.
- C111. Mariasole Bondioli, Stefano Chessa, Antonio Narzisi, Susanna Pelagatti, Dario Piotrowicz, "Capturing play activities of young children to detect autism red flags", 10th International Symposium on Ambient Intelligence (ISAmI), Avila (Spain), 26-28 June, 2019. Appears in *Advances in Intelligent Systems and Computing*, vol. 1006, pp.71-79, 2020. DOI: [https://doi.org/10.1007/978-3-030-24097-4\\_9](https://doi.org/10.1007/978-3-030-24097-4_9).
- C110. Antonio Caruso, Stefano Chessa, Soledad Escolar, Xavier del Toro García, Melisa Kuzman, Juan C. López, "A Testbed and an Experimental Public Dataset for Energy-Harvested IoT Solutions", IEEE International Conference on Industrial Informatics (INDIN), 22-25 July 2019, Helsinki-Espoo, Finland, pp. 869-876.
- C109. Antonio Caruso, Stefano Chessa, Soledad Escolar, Xavier del Toro García, Melisa Kuzman, Juan C. López, "Experimenting Forecasting Models for Solar Energy Harvesting Devices for Large Smart Cities Deployments", IEEE International Symposium on Computers and Communications (ISCC), Workshop on Management of Cloud and Smart city systems (MoCS), Barcelona, Spain, 29 June - 3 July 2019, pp. 1177-1182.
- C108. Dimitri Belli, Stefano Chessa, Antonio Corradi, Giampiero Di Paolo, Luca Foschini, Michele Girolami, "Selection of Mobile Edges for a Hybrid CrowdSensing Architecture", IEEE International Symposium on Computers and Communications (ISCC), Barcelona, Spain, June 29th - July 3rd 2019, pp. 6.
- C107. Dimitri Belli, Stefano Chessa, Burak Kantarci, Luca Foschini, "A Capacity-Aware User Recruitment Framework for Fog-Based Mobile Crowd-Sensing Platforms", IEEE International Symposium on Computers and Communications (ISCC), Barcelona, Spain, June 29th - July 3rd 2019, pp. 6.
- C106. Soledad Escolar, Antonio Caruso, Stefano Chessa, Xavier del Toro, Félix J. Villanueva, Juan C. López, "Statistical Energy Neutrality in IoT Hybrid Energy-Harvesting Networks", IEEE International Symposium on Computers and Communications (ISCC), Natal, Brazil, 25-28 June 2018, pp. 444-449.
- C105. Dimitri Belli, Stefano Chessa, Luca Foschini and Michele Girolami, "A Social-Based Approach to Mobile Edge Computing", IEEE International Symposium on Computers and Communications (ISCC), Natal, Brazil, 25-28 June 2018, pp. 292-297.
- C104. Marco Lanini, Mariasole Bondioli, Antonio Narzisi, Susanna Pelagatti, Stefano Chessa, "Sensorized toys to identify the early 'red flags' of Autistic Spectrum Disorders in preschoolers", 9th International Symposium on Ambient Intelligence (ISAmI), Toledo (Spain), 20-22 June 2018. Appears in *Advances in Intelligent Systems and Computing*, vol. 806, pp.190-198. DOI: [10.1007/978-3-030-01746-0\\_22](https://doi.org/10.1007/978-3-030-01746-0_22).
- C103. Alexander Kocian and Stefano Chessa, "Static Data flow Analysis for Soft Real-Time System Design", 15th International Conference on Distributed Computing and Artificial Intelligence, (DCAI), Toledo (Spain), 20-22 June 2018. Appears in *Advances in Intelligent Systems and Computing*, vol. 801, pp.175-182, 2019. DOI: [10.1007/978-3-319-99608-0\\_20](https://doi.org/10.1007/978-3-319-99608-0_20).
- C102. Alexander Kocian and Stefano Chessa, "Auto Regressive Integrated Moving Average Modeling and Support Vector Machine Classification of Financial Time Series", 15th International Conference on Distributed Computing and Artificial Intelligence, (DCAI), Toledo (Spain), 20-22 June 2018. Appears in *Advances in Intelligent Systems and Computing*, vol. 805, pp.1-8, 2019. DOI: [10.1007/978-3-319-99698-1\\_1](https://doi.org/10.1007/978-3-319-99698-1_1).
- C101. Parvaneh Parvin, Fabio Paternò, Stefano Chessa, "Anomaly Detection in the Elderly Daily Behavior", 14th International Conference on Intelligent Environments (IE'18), Rome, Italy, 25-28 June 2018, pp.103-106. This paper received the "Best doctoral colloquium award".
- C100. Dimitri Belli, Stefano Chessa, Luca Foschini, Michele Girolami, "Enhancing Mobile Edge Computing Architecture with Human-driven Edge Computing Model", 14th International Conference on Intelligent Environments (IE'18), Rome, Italy, 25-28 June 2018, pp. 95-98.
- C99. Gianluca Burchi, Stefano Chessa, Francesca Gambineri, Alexander Kocian, Daniele Massa, Luca Rimediotti, Alessandro Ruggeri, "Information Technology Controlled Greenhouse: A System Architecture", IoT Vertical and Topical Summit for Agriculture, Tuscany, Italy, 8-9 May 2018, pp. 1-6. DOI: [10.1109/IOT-TUSCANY.2018.8373044](https://doi.org/10.1109/IOT-TUSCANY.2018.8373044).
- C98. Manlio Bacco, Stefano Chessa, Marco Di Benedetto, Davide Fabbri, Michele Girolami, Alberto Gotta, Davide Moroni, Maria Antonietta Pascali, Vincenzo Pellegrini, "UAVs and UAV swarms for civilian applications:



communications and image processing in the SCIADRO project”, Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, LNICST 231, 2018, Pages 115-124. Proceedings of the 1st International Workshop on Unmanned Aerial Systems, Workshop of the 9th International Conference on Wireless and Satellite Systems (WiSATS 2017, formerly PSATS), September 14-15, 2017, Oxford, U.K.

- C97. Claudio Gallicchio, Davide Bacciu, Alessio Micheli, Stefano Chessa, "On the Need of Machine Learning as a Service for the Internet of Things", International Conference on Machine Learning and Internet of Things (IML '17), Liverpool, U.K., October 17–18, 2017.
- C96. Stefano Chessa, Michele Girolami, Fabio Mavilia, Gianluca Dini, Pericle Perazzo, Marco Rasori, "Sensing the Cities with Social-Aware Unmanned Aerial Vehicles", IEEE International Symposium on Computers and Communications (ISCC), workshop on Smart Cities and IoT Services (SmartIoT 2017), Heraklion, Greece, 3-6 July 2017, pp. 278-283.
- C95. Paolo Bellavista, Antonio Corradi, Luca Foschini, Stefano Chessa and Michele Girolami, "Human Dynamics of Mobile Crowd Sensing Experimental Datasets", IEEE International Conference on Communications (ICC), Paris, France, 21-25 May 2017, pp. 1-6. DOI: 10.1109/ICC.2017.7997041.
- C94. Alexander Kocian, Carmelo Ienco, Stefano Chessa, and Wilko Grolman, "Intelligent Smartphone Audiometry", 8th International Symposium on Ambient Intelligence (ISAmI), Porto, Portugal, 21-23 June 2017. Appears in *Advances in Intelligent Systems and Computing*, vol. 615, Springer, pp.112-120.
- C93. Michele Girolami, Stefano Chessa, Gaia Adami, Mauro Dragone and Luca Foschini, "Sensing Interpolation Strategies for A Mobile Crowdsensing Platform", IEEE Mobile Cloud '17, San Francisco, USA, 6-8 April 2017, pp. 102-108. DOI: 10.1109/MobileCloud.2017.8.
- C92. Davide Bacciu, Stefano Chessa, Erina Ferro, Luigi Fortunati, Claudio Gallicchio, Davide La Rosa, Miguel Llorente, Alessio Micheli, Filippo Palumbo, Oberdan Parodi, Andrea Valenti and Federico Vozzi, "Detecting Socialization Events in Ageing People: the Experience of the DOREMI Project", 12th International Conference on Intelligent Environments (IE'16), London, UK, 12-16 September 2016, pp.132-135.
- C91. Flaviano Di Rienzo, Michele Girolami, Stefano Chessa, Francesco Paparella, Antonio Caruso, "Signals From the Depths: Properties of Percolation Strategies with the Argo Dataset", IEEE International Symposium on Computers and Communications (ISCC), Messina, Italia, 27-30 June 2016, pp. 372-378.
- C90. Alexander Kocian, Stefano Chessa, Wilko Grolman, "Development and Realization of an Artificial Patient with Hearing Impairment", IEEE International Symposium on Computers and Communications (ISCC), Messina, Italia, 27-30 June 2016, pp. 760-765.
- C89. Michele Girolami, Stefano Chessa, Mauro Dragone, Mélanie Bourouche, Vinny Cahill, "Using Spatial Interpolation to Extend Crowdsensing Coverage in Smart Cities", IEEE International Symposium on Computers and Communications (ISCC), Workshop on Management of Cloud and Smart city systems (MoCS), Messina, Italia, 27-30 June 2016, pp. 147-152.
- C88. Giuseppe Amato, Davide Bacciu, Stefano Chessa, Mauro Dragone, Claudio Gallicchio, Claudio Gennaro, Hector Lozano, Alessio Micheli, Gregory M. P. O'Hare, Arantxa Renteria, Claudio Vairo, "A Benchmark Dataset for Human Activity Recognition and Ambient Assisted Living", 7th International Symposium on Ambient Intelligence (ISAmI), University of Sevilla (Spain), 1-3 June 2016. Appears in *Advances in Intelligent Systems and Computing*, vol. 476, pp.1-9.
- C87. Juan Antonio Álvarez-García, Álvaro Arcos García, Stefano Chessa, Luigi Fortunati and Michele Girolami, "Detecting Social Interactions in Working Environments through Sensing Technologies", 7th International Symposium on Ambient Intelligence (ISAmI), University of Sevilla (Spain), 1-3 June 2016. Appears in *Advances in Intelligent Systems and Computing*, vol. 476, pp. 21-29.
- C86. Filippo Palumbo, Paolo Barsocchi, Stefano Chessa, Juan Carlos Augusto, "A stigmergic approach to indoor localization using Bluetooth Low Energy beacons", 12th IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS), Workshop on Activity Monitoring by Multiple Distributed Sensing (AMMDS), Karlsruhe, Germany, 25-28 August 2015 – Best paper award.
- C85. Michele Girolami, Stefano Chessa, Luca Foschini, Raffaele Ianniello, Antonio Corradi, "Social Amplification Factor for Mobile Crowd Sensing: The ParticipAct Experience", IEEE International Symposium on Computers and Communications (ISCC), Larnaca, Cyprus, 6-9 July 2015, pp. 117-123.
- C84. Michele Girolami, Erina Ferro, Stefano Chessa, "Discovery of Services in Smart Cities of Mobile Social Users", Management of Cloud and Smart city systems (MoCS), Larnaca, Cyprus, 6-9 July 2015, pp. 1081-1086.
- C83. Davide Bacciu, Stefano Chessa, Claudio Gallicchio, Alessio Micheli, Erina Ferro, Luigi Fortunati, Filippo Palumbo, Oberdan Parodi, Federico Vozzi, Sten Hanke, Johannes Kropf, Karl Kreiner, "Smart environments and context-awareness for lifestyle management in a healthy active ageing framework", 17th Portuguese Conference on artificial Intelligence (EPIA), Coimbra, Portugal, 8-11 September 2015. Appears in LNAI 9273 - Progress in Artificial

- Intelligence, Francisco Pereira, Penousal Machado, Ernesto Costa, Amílcar Cardoso editors, ISBN 978-3-319-23484-7 (2015), pp. 54-66.
- C82. Michele Girolami, Stefano Chessa, Stefano Basagni, Francesco Furfari, "Service Discovery in Mobile Social Networks", IEEE 25th Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC'14), Washington DC, USA, 2-5 September 2014, pp. 1464-1468.
- C81. Filippo Palumbo, Davide La Rosa, Stefano Chessa, "GP-m: Mobile Middleware Infrastructure for Ambient Assisted Living", International Workshop on Distributed Mobile systems & Services (DMSS'14), Madeira, Portugal, 23 June 2014, pp. 6.
- C80. Nicoletta Triolo, Susanna Pelagatti, Stefano Chessa, "Optimizing the MAC layer in real-time visual sensor networks applications using stencils", IEEE International Symposium on Computers and Communications (ISCC 2014), Madeira, Portugal, 23-26 June 2014, pp. 7.
- C79. Stefano Chessa, Soledad Escolar, Susanna Pelagatti, Jesús Carretero, "Routing with Virtual Coordinates in Mobile Sensor Networks", IEEE International Symposium on Computers and Communications (ISCC 2014), Madeira, Portugal, 23-26 June 2014, pp. 6.
- C78. Roberto Barbuti, Stefano Chessa, Alessio Micheli, Rita Pucci, "Identification of nesting phase in tortoise populations by neural networks", 1st Symposium on Intelligent Systems and Animal Welfare (ISAWEL '14), London, U.K., 1-4 April 2014. Appears in AISB50 - Selected papers, Goldsmiths University of London - Society for the study of artificial intelligence and the simulation of behaviour, ISBN: 978-1-908187-42-0. Best paper award.
- C77. Michele Girolami, Filippo Palumbo, Francesco Furfari, Stefano Chessa, "The Integration of ZigBee with the GiraffPlusRobotic Framework", 2nd International Workshop on Adaptive Robotic Ecologies (ARE'13) – co-located with AMI 2013, Dublin, Ireland, 3-5 December 2013. In: Evolving Ambient Intelligence, Springer CCIS 413, pp. 86-101. ISBN: 978-3-319-04405-7.
- C76. Soledad Escolar, Stefano Chessa, Jesús Carretero, "Energy Management of Networked, Solar Cells Powered, Wireless Sensors", 16th ACM/IEEE International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM), Barcelona, Spain, 3-8 November 2013, pp. 263-266. ISBN: 978-145032353-6.
- C75. Paolo Barsocchi, Filippo Palumbo, Claudio Gallicchio, Stefano Chessa, Alessio Micheli, "Multisensor Data Fusion for Activity Recognition Based on Reservoir Computing", Evaluating AAL Systems through Competitive Benchmarking, Norrköping, SE, 24 September 2013. Appears in "Evaluating AAL Systems Through Competitive Benchmarking", Communications in Computer and Information Science Series (CCIS), J. A. Botía, J. A. Álvarez García, K. Fujinami, P. Barsocchi, T. Riedel editors – vol. 386, 2013, pp. 24-35. ISBN 978-3-642-37418-0.
- C74. Stefano Chessa, Claudio Gallicchio, Roberto Guzman, Alessio Micheli, "Robot Localization by Echo State Networks using RSS", 23rd Workshop of the Italian Neural Networks Society (SIREN), Vietri sul Mare, Salerno, Italy, 23-25 May 2013. Appears in Recent Advances of Neural Networks Models and Applications, Bassis, S.; Esposito, A.; Morabito, F.C. Editors, Springer Smart Innovation, Systems and Technologies series, vol. 26 (2014), pp. 147-154, ISBN: 978-3-319-04128-5 (2013), DOI: 10.1007/978-3-319-04129-2.
- C73. Michele Girolami, Paolo Barsocchi, Stefano Chessa, Francesco Furfari, and, "A Social-Based Service Discovery Protocol for Mobile Ad Hoc Networks", 12th Ann. Mediterranean Ad Hoc Networking (Med-Hoc-Net) Ajaccio, France, 24-26 June 2013, pp. 103-110.
- C72. Davide Bacciu, Claudio Gallicchio, Alessandro Lenzi, Stefano Chessa, Alessio Micheli, Susanna Pelagatti, "Distributed Neural Computation over WSN in Ambient Intelligence", 4th International Symposium on Ambient Intelligence (ISAmI), University of Salamanca (Spain), 22-24 May, 2013. Appears in Ambient Intelligence - Software and Applications, A. van Berlo et al. (Eds.), Advances in Intelligent Systems and Computing series, vol. 219, pp. 147-154, Springer 2013. ISBN 978-3-319-00565-2.
- C71. Giuseppe Amato, Stefano Chessa, Claudio Gennaro, Daniele Pallini, Claudio Vairo, "A Data Logger for Wireless Sensor Network", 2nd Int. Conf. On Sensor Networks (Sensornets), Barcelona, Spain, 19-21 February 2013, pp. 65-69. ISBN: 978-989-8565-45-7.
- C70. Giuseppe Amato, Stefano Chessa, Claudio Gennaro, Claudio Vairo, "Dynamic Tracking of Composite Events in Wireless Sensor Networks", 4th ADHOCNETS Paris, France, 16-17 October 2012. Appears in J. Zheng et al. (Eds.): LNICST 111, pp. 72-86. Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (2013).
- C69. Michele Girolami, Francesco Furfari, Stefano Chessa, "A Cost-Based Model for Service Discovery in Smart Environments", Int. Joint Conf. on Ambient Intelligence (AmI) Pisa, Italy, 13-15 November 2012. Appears in Ambient Intelligence, F. Paternò, B. De Ruyter, P. Markopoulos, C. Santoro, E. Van Loenen editors, LNCS 7683 pp.397-402. ISBN: 978-3-642-34897-3.
- C68. Giuseppe Amato, Mathias Broxvall, Stefano Chessa, Mauro Dragone, Claudio Gennaro, Claudio Vairo, "When Wireless Sensor Networks Meet Robots", 7th Int. Conf. On Systems and Networks Communications (ICSNC), Lisbon, Portugal, 18-23 November 2012, pp. 35-40. ISBN: 978-1-61208-231-8.

- C67. Davide Bacciu, Stefano Chessa, Claudio Gallicchio, Alessio Micheli, Paolo Barsocchi, "An Experimental Evaluation of Reservoir Computation for Ambient Assisted Living", 22nd Italian Workshop on Neural Networks, Vietri sul Mare, Salerno, Italy, 17-19 May 2012. Appears in *Neural Networks and Surroundings*, Apolloni, B.; Bassis, S.; Esposito, A.; Morabito, F.C. Editors, Springer Smart Innovation, Systems and Technologies series, vol. 19 (2013), pp. 41-50, ISBN: 978-3-642-35466-3.
- C66. Davide Bacciu, Stefano Chessa, Claudio Gallicchio, Alessandro Lenzi, Alessio Micheli, Susanna Pelagatti, "A General Purpose Distributed Learning Model for Robotic Ecologies", International IFAC Symposium on Robotic Control (SYROCO 2012), session on Adaptive Robotic Ecologies, Dubrovnik, Croatia, 5-7 September 2012. In *Robot Control* 10(1), pp. 435-440. DOI: 10.3182/20120905-3-HR-2030.00178.
- C65. Stefano Chessa, Soledad Escolar, Susanna Pelagatti, Paolo Baronti and Jesús Carretero, "Guaranteed-Delivery in Arbitrary Dimensional Wireless Sensor Networks by means of Recursive Virtual Coordinates", IEEE International Symposium on Computers and Communications (ISCC 2012), Cappadocia, Turkey, 1-4 July 2012, pp. 399-404.
- C64. Soledad Escolar, Stefano Chessa and Jesús Carretero, "Optimization of Quality of Service in Wireless Sensor Networks Powered by Solar Cells", 10th IEEE International Symposium on Parallel and Distributed Processing with Applications (ISPA), Leganés, Madrid, 10-13 July 2012, pp. 269-276.
- C63. Alexander Robert Kutzke, Andréa Weber, Stefano Chessa, "An Optimal Design Testing Assignment for Wireless Sensor Networks", XXX Brazilian Symposium on Computer Networks and Distributed Systems (SBRC), Ouro Preto, Brazil, April 30-May 4, 2012, pp. 145-158.
- C62. Giuseppe Amato, Mathias Broxvall, Stefano Chessa, Mauro Dragone, Claudio Gennaro, Rafa Lopez, Liam Maguire, T. Martin McGinnity, Alessio Micheli, Arantxa Renteria-Bilbao, Gregory M.P. O'Hare, Federico Pecora, "Robotic Ubiquitous COgnitive Network", 3rd International Symposium on Ambient Intelligence (ISAmI), Salamanca, Spain, March 28-30, 2012. Series: *Advances in Intelligent and Soft Computing*, Vol. 153, pp. 191-195. Springer. DOI: 10.1007/978-3-642-28783-1\_23, pp.191-195.
- C61. Claudio Gallicchio, Alessio Micheli, Paolo Barsocchi, Stefano Chessa, "User Movements Forecasting by Reservoir Computing using Signal Streams produced by Mote-Class Sensors", 3rd International Conference on Mobile Lightweight Wireless Systems, Bilbao, Spain, 9-11 May 2011, pp.1-17. Appears in Del Ser, J.; Jorswieck, E.A.; Miguez, J.; Matinmikko, M.; Palomar, D.P.; Sanz, S.S.; Gil-Lopez, S. (Eds.), *LNICST*, Springer-Verlag Berlin Heidelberg, vol. 81, part 3, pp. 151-168, 2012, ISBN 978-3-642-29478-5.
- C60. Davide Bacciu, Claudio Gallicchio, Alessio Micheli, Stefano Chessa, Paolo Barsocchi, "Predicting User Movements in Heterogeneous Indoor Environments by Reservoir Computing", in M. Bhatt, H. W. Guesgen, and J. C. Augusto, editors, *Proceedings of the IJCAI Workshop on Space, Time and Ambient Intelligence (STAMI)*, Barcellona, Spain, July 16-22, 2011, pp.1-6.
- C59. Soledad Escolar, Stefano Chessa, Jesús Carretero "Cross-Layer Optimization of Low Power Listening MAC Protocols for Wireless Sensor Networks", IEEE International Symposium on Computers and Communications (ISCC 2011), Kerkyra, Greece, June 28 – July 1, 2011, pp. 684-691.
- C58. Paolo Barsocchi, Stefano Chessa, Erina Ferro, Francesco Furfari, Francesco Potorti, "Context Driven Enhancement of RSS-based Localization Systems", IEEE International Symposium on Computers and Communications (ISCC 2011), Kerkyra, Greece, June 28 – July 1, 2011, pp.463-468.
- C57. Giuseppe Amato, Stefano Chessa, Claudio Gennaro, Claudio Vairo, "Efficient Detection of Composite Events in Wireless Sensor Networks: Design and Evaluation", IEEE International Symposium on Computers and Communications (ISCC 2011), Kerkyra, Greece, June 28 – July 1, 2011, pp.821-823.
- C56. Andréa Weber, Alexander Robert Kutzke, Stefano Chessa, "Energy-Aware Test Connection Assignment for the Diagnosis of a Wireless Sensor Network", 5th Latin American Symposium on Dependable Computing (LADC 2011), San Paulo, Brazil, 25-29 April 2011, pp. 65-73.
- C55. Paolo Barsocchi, Stefano Chessa, Ivan Martinovic, and Gabriele Oliveri, "AmbiSec: Securing Smart Spaces Using Entropy Harvesting", International Joint Conference on Ambient Intelligence (AmI 2010), Malaga, Spain, 10-12 November 2010. Appears in B. de Ruyter et al. (Eds.), *LNCS 6439*, Springer-Verlag Berlin Heidelberg, pp. 73-85, 2010.
- C54. Giuseppe Amato, Stefano Chessa, Claudio Vairo and Paolo Valleri, "Modeling Detection and Tracking of Complex Events in Wireless Sensor Networks", IEEE International Conference on Systems, Man, and Cybernetics (SMC 2010), Istanbul, Turkey, 10-13 October 2010, pp. 235-242.
- C53. Matteo Repetto, Riccardo Rapuzzi, Stefano Chessa, Stefano Lenzi, John Gialelis, Tasos Fragopoulos, "The InterMedia networking and security architecture for user centric multimedia convergence", International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS 2010), Ottawa, Canada, 11-14 July 2010, pp. 194-201.
- C52. Michele Albano and Stefano Chessa, "Data Centric Storage in ZigBee Wireless Sensor Networks", IEEE International Symposium on Computers and Communications (ISCC 2010), Riccione, Italy, 22-25 June 2010, pp. 330-335.

- C51. Andréa Weber, Alexander Robert Kutzke, Stefano Chessa, "Diagnosability Evaluation for a System-Level Diagnosis Algorithm for Wireless Sensor Networks", IEEE International Symposium on Computers and Communications (ISCC 2010), Riccione, Italy, 22-25 June 2010, pp. 241-244.
- C50. Gunnar Fagerberg, Antonio Kung, Reiner Wichert, Mohammad-Reza Tazari, Bruno Jean-Bart, Gerald Bauer, Gottfried Zimmermann, Francesco Furfari, Francesco Potorti, Stefano Chessa, Michael Hellenschmidt, Joe Gorman, Jan Alexandersson, Jürgen Bund, Eduardo Carrasco, Gorka Epelde, Martin Klíma, Elena Urdaneta, Gregg C. Vanderheiden, Ingo Zinnikus, "Platforms for AAL Applications", Lecture Notes in Computer Science 6446, Springer-Verlag, Proc. Smart Sensing and Context - 5th European Conference, EuroSSC 2010, Passau, Germany, November 14-16, 2010, pp. 177-201.
- C49. Giuseppe Amato, Stefano Chessa, and Claudio Vairo, "Optimizing Network-Side Queries with Timestamp-Join in Wireless Sensor Networks", IEEE 35th Conference on Industrial Electronics Society (IECON 2009), Porto, Portugal, 3-5 November 2009, pp. 2653-2658.
- C48. Antonio Caruso, Stefano Chessa, and Swades De, "Relation Between Gradients and Geographic Distances in Dense Sensor Networks with Greedy Message Forwarding", 4th International Conference on Systems and Networks Communications (ICSNC 2009), Porto, Portugal, 20-25 September 2009, pp. 236-241.
- C47. Raffaele Bolla, Riccardo Rapuzzi, Matteo Repetto, Paolo Barsocchi, Stefano Chessa, and Stefano Lenzi, "Automatic Multimedia Session Migration by means of a Context-Aware Mobility Framework", 6th International Conference on Mobile Technology, Application and Systems (Mobility '09), Nice, France, 2-4 September 2009, pp. 1-7.
- C46. Michele Amoretti, Folker Wientapper, Francesco Furfari, Stefano Lenzi, and Stefano Chessa, "Sensor Data Fusion for Activity Monitoring in Ambient Assisted Living Environments", LNICST 24, proc. 1st International Conference on Sensor Systems and Software (S-Cube 2009), Pisa, Italy, 7-9 September 2009, pp. 206-221.
- C45. Gabriele Oligeri, Stefano Chessa, Paolo Barsocchi, Gaetano Giunta, Pauline M.L. Chan, and Prashant Pillai, "Real-Time Loss Tolerant Video Streaming Authentication for Satellite Links", International Workshop on Satellite and Space Communications (IWSSC 2009), Siena, Italy, 10-11 September 2009, pp 125-129.
- C44. Farukh Nadeem, Erich Leitgeb, Muhammad Saleem Awan, and Stefano Chessa, "Comparing the Life Time of Terrestrial Wireless Sensor Networks by Employing Hybrid FSO/RF and only RF Access Networks", 5th International Conference on Wireless and Mobile Communications (ICWMC 2009), Cannes, France, 23-29 August 2009, pp 134-139.
- C43. Michele Albano and Stefano Chessa, "Distributed Erasure Coding in Data Centric Storage for Wireless Sensor Networks", IEEE International Symposium on Computers and Communications (ISCC 2009), Sousse, Tunisia, 5-8 July 2009, pp.22-27.
- C42. Michele Albano and Stefano Chessa, "Publish/subscribe in Wireless Sensor Networks based on Data Centric Storage", The 1st International Workshop on Context-Aware Middleware and Services (CAMS 2009), co-located with COMSWARE, ACM International Conference Proceeding Series vol. 385, Dublin, Ireland, 16 June 2009, pp. 37-42.
- C41. Paolo Barsocchi, Stefano Lenzi, Stefano Chessa, and Gaetano Giunta, "Virtual Calibration for RSSI-based Indoor Localization with IEEE 802.15.4", IEEE International Conference on Communications (ICC 2009), Dresden, Germany, 14-18 June 2009, pp.512-516.
- C40. Paolo Barsocchi, Stefano Lenzi, Stefano Chessa, and Gaetano Giunta, "A Novel Approach to Indoor RSSI Localization by Automatic Calibration of the Wireless Propagation Model", IEEE 69th Vehicular Technology Conference (VTC 2009-Spring), Barcelona, Spain, 26-29 April 2009, pp. 644-648.
- C39. Stefano Chessa, Stefano Lenzi, Francesco Furfari, Raffaele Bolla, Riccardo Rapuzzi, Matteo Repetto "Social Networking and Context Management for the Future 3D Internet", 1stInternational Workshop on Communication Systems and Networks, accompanying workshop of COMSNETS 2009, January 5, 2009, Bangalore, India, pp. 109-114.
- C38. Stefano Chessa, Stefano Lenzi, Francesco Furfari, Raffaele Bolla, Riccardo Rapuzzi, Matteo Repetto "Enabling Social and Distributed Interaction in the Future 3D Internet", Workshop on Hyper-media 3D Internet, Geneva, Switzerland, 13-14 October 2008, pp. 13-22.
- C37. Claudio Vairo, Michele Albano, Stefano Chessa "A Secure Middleware for Wireless Sensor Networks", 1st International Workshop on Middleware for Mobile Embedded Peer-to-Peer Systems (MIMES - accompanying Mobiquitous 2008), July 25, 2008 - Trinity College Dublin, Ireland, pp.6.
- C36. Michele Albano, Stefano Chessa, Roberto di Pietro "Information assurance in critical infrastructures via Wireless Sensor Networks", 4th International Conference on Information Assurance and Security (IAS), Naples, Italy, 8-10 September 2008, pp. 305-310.
- C35. Stefano Chessa, Francesco Furfari, Michele Girolami, Stefano Lenzi, "SAIL: a Sensor Abstraction and Integration Layer for Context Aware Architectures", 34th EUROMICRO Conference on Software Engineering and Advanced

Applications - Special Session on Software Architecture for Pervasive Systems (SAPS), Parma, Italy, 3-5 September, 2008, pp. 374-381.

- C34. Raffaele Bolla, Matteo Repetto, Stefano Chessa, Francesco Furfari, Saar De Zutter, Rik Van de Walle, Bernhard Reiterer, Hermann Hellwagner, Mark Asbach, Mathias Wien, "A Context-Aware Architecture for QoS and Transcoding Management of Multimedia Streams in Smart Homes", 13th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA '08), Hamburg, Germany, 15-18 September 2008, pp. 1354-1361.
- C33. Luiz Carlos Pessoa Albin, Alessandro Brawerman, Michele Nogueira Lima, Stefano Chessa and Piero Maestrini, "Virtual Structure Effects in Two Hybrid Routing Protocols for Ad Hoc Networks", IEEE International Symposium on Wireless Pervasive Computing (ISWPC '08), Santorini, Greece, 7-9 May 2008, pp. 436-440.
- C32. Michele Albano, Francesco Nidito, Stefano Chessa, and Susanna Pelagatti, "Data Centric Storage in Non-Uniform Sensor Networks", 2nd International Workshop on Distributed Cooperative Laboratories (INGRID 2007 - Instrumenting the Grid), Santa Margherita Ligure, Italy, April 16 - 18, 2007. Appears in in Grid-Enabled Remote Instrumentation, F. Davoli, N. Meyer, R. Pugliese, and S. Zappatore editors, Springer Series on Signals and Communication Technology - ISBN 978-0-387-09662-9, 2009, pp. 3-19.
- C31. Stefano Chessa, Gaetano Giunta, Roberto di Pietro, and Gabriele Oliveri, "Video Streaming Authentication over Lossy Channels", Net&System Security '07, Pisa, Italy, 27 November 2007, pp. 6. Best paper award.
- C30. Paolo Barsocchi, Antonio Blasco Bonito, and Stefano Chessa, "Localization in Open Fields by using RSSI on IEEE 802.15.4", 15th IMEKO TC4 Symposium on Novelties in Electrical Measurements and Instrumentation, 19-21 September 2007, Iasi, Romania, pp. 1154-1160.
- C29. Giuseppe Amato, Francesco Furfari, Stefano Lenzi, and Stefano Chessa, "Enabling Context Awareness through Distributed Query Processing in Wireless Sensor Networks", 2nd International Workshop on Requirements and Solutions for Pervasive Software Infrastructures (RSPSI - accompanying Ubicomp 2007), September 16, 2007, Innsbruck, Austria, pp.104-110.
- C28. Giuseppe Amato, Paolo Baronti, and Stefano Chessa, "Query Optimization for Wireless Sensor Network Databases in the MadWise system", XV Convegno Nazionale su Sistemi Evoluti per Basi di Dati, SEBD 2007, Fasano, Brindisi, 17-20 Giugno 2007, pp.242-249.
- C27. Stefano Chessa, Gaetano Giunta, Gabriele Oliveri, "Embedding source signature in multicast wireless video streams", IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM '07), Helsinki, Finland, 18-21 June 2007, pp. 112-118.
- C26. Nicola Filardi, Antonio Caruso, Stefano Chessa, "Virtual Naming and Geographic Routing on Wireless Sensor Networks", IEEE Symposium on Computers and Communications (ISCC '07), July 1-4 2007, Aveiro, Portugal, pp. 609-614.
- C25. Michele Albano, Stefano Chessa, Francesco Nidito, and Susanna Pelagatti, "Q-NIGHT: Adding QoS to Data Centric Storage in Non-Uniform Sensor Networks", IEEE Mobile Data Management (MDM '07), Mannheim, Germany, May 7 - 11, 2007, pp. 166-173.
- C24. Stefano Chessa, Roberto Di Pietro, Erina Ferro, Gaetano Giunta, and Gabriele Oliveri "Mobile Application Security for Video Streaming Authentication and Data Integrity Combining Digital Signatures and Watermarking Techniques", 2007 IEEE 65th Vehicular Technology Conference (VTC 2007-Spring), 22 - 25 April 2007, Dublin, Ireland, pp.634-638.
- C23. Raffaele Bolla, Franco Davoli, Matteo Repetto, Anastasios G. Fragopoulos, Dimitrios Serpanos, Stefano Chessa, Erina Ferro, "Heterogeneous Networking in the Home Environment", Broadband Europe (BBEurope 2006), Geneva, Switzerland, 11-14 December 2006, pp.8.
- C22. Massimiliano Iacono, Paolo Baronti, Giuseppe Romano, Giuseppe Amato, and Stefano Chessa, "Monitoring Fire-Fighters Operating in Hostile Environments with Body-Area Wireless Sensor Networks", 5th Conference on Risk Assessment and Management in the Civil and Industrial Settlements (VGR 2006), Pisa, Italy, 17-19 October 2006, pp.8.
- C21. Giuseppe Amato, Paolo Baronti, Stefano Chessa, and Valentina Masi, "The Stream System: a Data Collection and Communication Abstraction for Sensor Networks", IEEE International Conference on Systems, Man, and Cybernetics (SMC '06), Taipei, Taiwan, 8-11 October 2006, pp.1449 - 1454.
- C20. Filippo Barsotti, Antonio Caruso, and Stefano Chessa, "The Localized Vehicular Multicast Middleware: a Framework for Ad Hoc Inter-Vehicles Multicast Communications", 10th WSEAS Int.Conf. on Communications, Athens, Greece, 10-15 July 2006, pp.6.
- C19. Paolo Baronti, Stefano Chessa, Tomaso de Cola, Laurent Franck, and Mario Marchese, "A Distributed Emulator for Interplanetary Remote Sensing", Advanced Satellite Mobile Systems (ASMS) Conference, Herrsching Ammersee, Germany, 29-31 May 2006, pp.301-306.
- C18. Giuseppe Amato, Paolo Baronti, and Stefano Chessa, "MaD-WiSe: Programming and Accessing Data in a Wireless Sensor Networks", IEEE Eurocon, Belgrado, Serbia & Montenegro, November 2005, pp.1846-1849.

- C17. Roberto Di Pietro, Stefano Chessa, and Piero Maestrini, "Computation, Memory and Bandwidth Efficient Distillation Codes to Mitigate DoS in Multicast", IEEE SecureComm, Athens, September 2005, pp.13-22.
- C16. Antonio Caruso, Stefano Chessa, Swades De, and Alessandro Urpi, "GPS Free Coordinate Assignment and Routing in Wireless Sensor Networks", IEEE INFOCOM, Miami, FL, 13-17 March 2005, vol. 1, pp 150-160.
- C15. Giuseppe Amato, Stefano Chessa, Fabrizio Conforti, Alberto Macerata, Carlo Marchesi, "Networking and Data Management for Health Care Monitoring of Mobile Patients", Personalized Health Workshop, Belfast UK, 12-15 December 2004. Published in volume 117 of Personalised Health Management Systems – The Integration of Innovative Sensing, Textile, Information and Communication Technologies, Nugent, C., McCullagh, P.J., McAdams, E.T., and Lymberis, A. Editors – ISSN 0926-9630; ISBN 978-1-58603-565-5, 2005, pp. 191-197.
- C14. Stefano Chessa, Roberto Di Pietro, and Piero Maestrini, "Dependable and Secure Data Storage in Wireless Ad Hoc Networks: an Assessment of DS2", LNCS 2928, Proc. 1st Working Conference on Wireless On-demand Network Systems (WONS '04), Madonna di Campiglio (Trento, Italy) January 21-23 2004, pp.184-198.
- C13. Stefano Chessa and Piero Maestrini, "Dependable and Secure Data Storage and Retrieval in Mobile, Wireless Networks", IEEE International Conference on Dependable System and Networks (DSN '03), San Francisco, USA, 22-25 June 2003, pp.207-216.
- C12. Stefano Chessa and Paolo Santi, "Comparison-Based System-Level Fault Diagnosis in Ad-Hoc Networks", IEEE Symposium on Reliable and Distributed Systems (SRDS '01), New Orleans, 28-31 October 2001, pp.257-266.
- C11. Antonio Caruso, Stefano Chessa, Piero Maestrini, and Paolo Santi, "Diagnosis of Regular Structures", IEEE International Conference on Dependable Systems and Networks (DSN 2000), New York, USA, 25-28 June 2000, pp.213-222.
- C10. Antonio Caruso, Stefano Chessa, and Piero Maestrini, "Comparison-Based Diagnosis of VLSI Wafers", 3rd Design & Diagnostic of Electronic Circuits and Systems Workshop, Smolenice Castle, Slovakia, 5-7 April 2000, pp.227-232.
- C9. Antonio Caruso, Stefano Chessa, Piero Maestrini, and Paolo Santi, "Reliable Diagnosis of Grid-Connected Systems", 1st IEEE Latin-American Test Workshop (LATW 2000), Rio de Janeiro, Brazil, 13 - 15 March 2000, pp.162-165.
- C8. Antonio Caruso, Stefano Chessa, and Piero Maestrini, "Wafer-Scale VLSI Testing", IEEE Test Methods and Reliability of Circuits and Systems (TMRCS 2000), Grassau, Germany, 19-21 March 2000, pp.95-98.
- C7. Stefano Chessa, Balazs Sallay, and Piero Maestrini, "Diagnostic Model and Diagnosis Algorithm of a SIMD Computer", Lecture Notes on Computer Science 1667, Springer-Verlag, Proc. EDCC-3 Conference on Dependable Computing, Prague, Czech Republic, 15-17 September 1999, pp.283-300.
- C6. Govind Krishnamurthi, Stefano Chessa, and Arun Somani, "Optimal Replication of Location Information in Mobile Networks", IEEE International Conference on Communications (ICC '99), Vancouver, BC Canada, 6-10 June 1999, pp.1768-1772.
- C5. Govind Krishnamurthi, Stefano Chessa, and Arun Somani, "Fast Recovery Protocol for Database and Link Failures in Mobile Networks", 7th IEEE International Conference on Computer Communications and Networks (IC3N '98), Lafayette, Louisiana, 12-15 October 1998, pp.32-39.
- C4. Stefano Chessa, and Piero Maestrini, "Evaluation of Diagnosing Algorithms for Grid Interconnected Systems", International Workshop on Dependability in Advanced Computing Paradigms (DACP' 96), Hitachi City, Ibaraki, Japan, June 1996, pp. 40-45.
- C3. Stefano Chessa, and Piero Maestrini, "Self-Test of Integrated Circuit Wafers", European Test Workshop (ETW 96), Sete-Montpellier, France, June 1996, pp.54-58.
- C2. Federico Aglietti, Enrico Centurioni, Stefano Chessa, Ivan D'Auria, Francesco Franzinelli, Piero Maestrini, Andrea Michelotti, Igor Pagliai, and Raffaele Tripiccione, "Self-Diagnosis of APEmille", EDCC-2 Companion Workshop on Dependable Computing, Silesian Technical University, Gliwice Poland, May 1996, pp.73-84.
- C1. Stefano Chessa, Piero Maestrini, Maurizio Mangione, Stefano Polacci, and Paolo Santi, "Self-Diagnosing Algorithms for Processor Arrays: Survey and Evaluation", 1th International Conference on Automation (ICAUTO), Indore India, December 1995, pp.603-606.

### Capitoli di libri e magazines divulgativi

- B13. Ovidiu Vermesan, Arne Bröring, Elias Tragos, Martin Serrano, Davide Bacciu, Stefano Chessa, Claudio Gallicchio, Alessio Micheli, Mauro Dragone, Alessandro Saffiotti, Pieter Simoens, Filippo Cavallo and Roy Bahr, Internet of Robotic Things - Converging Sensing/Actuating, Hyperconnectivity, Artificial Intelligence and IoT Platforms, in Cognitive Hyperconnected Digital Transformation: Internet of Things Intelligence Evolution, River Publisher, August 2017, pp. 97-155. ISBN: 9788793609105, doi: 10.13052/rp-9788793609105.
- B12. Michele Girolami, Stefano Chessa, "Service-oriented mobile social networking", ERCIM News 111, ISSN 0926-4981, October 2017, p. 45.

- B11. Michele Girolami, Francesco Furfari, Stefano Chessa, "An Integration Gateway for Sensing Devices in Smart Environments", ERCIM News 101, ISSN 0926-4981, April 2015, pp. 31-32.
- B10. Stefano Chessa, Francesco Furfari, Francesco Potorti, Paolo Barsocchi, Mohammad-Reza Tazari, Reiner Wichert, "Evaluating AAL Systems Through Competitive Benchmarking (EvAAL) – technical aspects of the first competition", EvAAL Workshop, AAL Forum, Lecce, Italy, September 26-28, 2011. In: Partnerships for Social Innovation in Europe, Ilse Bierhoff, Henk Herman Nap, Wil Rijnen, Reiner Wichert editors, ISBN 978-90-819709-0-7 (2012) Proceedings of the AAL Forum, Lecce, Italy, September 26-28, 2011.
- B9. Stefano Chessa, Francesco Furfari, Francesco Potorti, Juan Pablo Lázaro and Dario Salvi, "EvAAL: Evaluating AAL Systems through Competitive Benchmarking", ERCIM News 87, ISSN 0926-4981, October 2011, pp. 46.
- B8. Stefano Chessa, Francesco Furfari, Francesco Potorti, Casper Dahl Marcussen, Sergio Guillen, Juan-Pablo Lázaro-Ramos, Marius Mikalsen, Dario Salvi, Mohammad-Reza Tazari, Reiner Wichert, "The EvAAL project - Evaluating AAL Systems Through Competitive Benchmarking", in Active Ageing: Smart Solutions, New Markets, 2011, proceedings of the AAL Forum, Odense, Denmark, 15-17 September 2010, pp. 183-192. ISBN 978-3-902580-08-5.
- B7. Michele Albano and Stefano Chessa, "Programming a Sensor Network in a layered middleware architecture", book chapter in: Tan Yen Kheng and Winston Seah, Sustainable Wireless Sensor Networks, InTech Press, ISBN: 978-953-307-297-5, December 2010, pp.521-546.
- B6. Stefano Chessa, "Sensor Network Standards", book chapter in: J. Zheng and A. Jamalipour, Wireless Sensor Networks: A Networking Perspective, Wiley-IEEE Press, September 2009, pp.407-431.
- B5. Giuseppe Amato, Stefano Chessa, Francesco Furfari, Stefano Lenzi, Claudio Vairo, "Towards Data Management in the Sensor Web: the MaD-WiSe System", ERCIM News 79, ISSN 0926-4981, January 2009, pp. 51-52.
- B4. Stefano Chessa, "Reti di Sensori: Stato dell'Arte e Prospettive Future", ICT Professionale n. 58, Aprile-Maggio 2008, ISSN 1828-2865, pp. 66-68.
- B3. Stefano Chessa, Francesco Nidito, Susanna Pelagatti, "Distributed Data Management in Sensor Networks", book chapter in: Wireless Communications Research Trends, Edited by Tong S. Lee, Nova Science Publisher Inc., NY, 2007, ISBN: 1-60021-674-9, pp. 165-190.
- B2. Giuseppe Amato, Stefano Chessa, Fabrizio Conforti, Alberto Macerata and Carlo Marchesi, "Health Care Monitoring of Mobile Patients", Ercim news n.60, 2005.
- B1. Stefano Chessa and Paolo Santi, "Fault Diagnosis in Wireless Sensor Networks", Ercim news n.47, October 2001.

### **Editoriali di riviste e collane**

- M5. R. Barbuti, S. Chessa, R. Fresco, P. Milazzo, Prefazione, Atti Soc. tosc. Sci. nat., Mem., Serie B., 125:61-66 (2018), DOI: 10.2424/ASTSN.M.2018.9
- M4. Stefano Chessa, Mauro Dragone, Arantxa Renteria, Alessandro Saffiotti, Introduction to the 2nd international workshop on adaptive robotic ecologies, (ARE'13), Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 8309 LNCS, pp. 309-310.
- M3. Stefano Chessa, Stefan Knauth, Editorial of Evaluating AAL Systems Through Competitive Benchmarking - International Competitions and Final Workshop, Communications in Computer and Information Science Series (CCIS) vol. 362, ISBN 978-3-642-37418-0 (2013), pp. V-VI.
- M2. Stefano Chessa, Stefan Knauth, Editorial of Evaluating AAL Systems Through Competitive Benchmarking - Indoor Localization and Tracking, Communications in Computer and Information Science Series (CCIS) vol. 309, ISBN 978-3-642-33532-7 (2012), pp. V-VI
- M1. Michael Hellenschmidt, Nikolaos Georgantas, Stefano Chessa, Robert Grimm, editorial for "Second International Workshop on Requirements and Solutions for Pervasive Software Infrastructures", Ubicomp 2007, September 16, 2007, Innsbruck, Austria, pp.65-110.

### **Brevetti**

- B1. Brevetto IT N. 1409308 per invenzione industriale: "Dispositivo e procedimento di localizzazione in particolare di siti di nidificazione e simili", R. Barbuti, G. Anastasi, S. Chessa, A. Micheli. Domanda di brevetto numero IT MI20112337, presentato il 21/12/2011 (CCIAA di deposito: MILANO).