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Book Chapters

[Ms Andrea Ballatore](#)

Ballatore, A.; Wilson, D.C.; Bertolotto, M. (2013) 'A Survey of Volunteered Open Geo-Knowledge Bases in the Semantic Web' In: Pasi, Gabriella; Bordogna, Gloria; Jain, Lakhmi C (eds). *Quality Issues in the Management of Web Information*. Berlin: Springer. , pp.93-120 →

[Dr Michela Bertolotto](#)

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[Dr Chris Bleakley](#)

Gonzalez, J.R., Saad, M., and Bleakley, C.J. (2013) 'Wideband Ultrasonic Transmitter and Sensor Array for In-Air Applications' In: Choudhary, V., and Iniewski, K (eds). *MEMS: Fundamental Technology and Applications*. USA: CRC Press. , pp.227-248 →

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[Professor Mohand Kechadi](#)

Chabo, Y, Bertaux, A, Nicolle, C, Kechadi, M-T (2014) 'Event reconstruction: A state of the art' In: M M Cruz-Cunha, I M Portela (eds). *Handbook of Research on Digital Crime, Cyberspace Security, and Information Assurance*. New York, USA: IGI Global.

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[Dr Alexey Lastovetsky](#)

Clarke, D; Ilic, A; Lastovetsky, A; Rychkov, V; Sousa, L; Zhong, Z (2014) 'Design and

optimization of scientific applications for highly heterogeneous and hierarchical HPC platforms using functional computation performance models' In: Jeannot, E; Zilinskas, J (eds). *High-Performance Computing on Complex Environments (Wiley series on parallel and distributed computing)*. USA: Wiley.

Dichev, K; Lastovetsky, A (2014) 'Optimization of collective communication for heterogeneous HPC platforms' In: Jeannot, E; Zilinskas, J (eds). *High-Performance Computing on Complex Environments (Wiley series on parallel and distributed computing)*. USA: Wiley.

Brady, T; Girko, O.; Lastovetsky, A (2013) 'Smart RPC-based Computing in Grids and on Clouds' In: Sarbazi-Azad, H; Zomaya, A (eds). *Large Scale Network-Centric Computing Systems (Wiley series on parallel and distributed computing)*. USA: Wiley.

[Dr Sameh Mohamed Abdelnaby Abdalla](#)

Murdoch, Olga; Wan, Jessie; Abdalla, Sameh; O'Grady, Michael J.; O'Hare, Gregory M. P. (2013) 'Sensor Infrastructures for Ambient Assisted Living' In: Borko Furht, Ankur Agarwal (eds). *Handbook of Medical and Healthcare Technologies*. New York: Springer.

[Dr Michael Salter-Townshend](#)

Salter-Townshend, M. and Murphy, T.B. (2013) 'Sentiment Analysis of Online Media' In: Lausen, B., van del Poel, D. and Ultsch, A (eds). *Algorithms from and for Nature and Life*. Heidelberg: Springer. , pp.137-146

[Dr Tony Veale](#)

Tony Veale (2014) 'The ABCs of XYZs: Creativity and Conservativity in Humorous Epithets' In: J. Manjaly, B. Indurkha (eds). *Cognition, Experience, and Creativity*. New Delhi: Orient Blackswan.

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[Dr Mel Ó Cinnéide](#)

Mahouachi, R., Kessentini, M., and Ó Cinnéide, M. (2013) 'Search-based Refactoring

Detection using Software Metrics Variation' In: Ruhe, Günther and Zhang, Yuanyuan (eds). *Search Based Software Engineering*. Heidelberg: Lecture Notes in Computer Science.

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Books Edited

[Dr Alexey Lastovetsky](#)

Lastovetsky, A (Ed.). (2013) *Heterogeneity in parallel and distributed computing*. San Diego, CA, USA: Elsevier Science.

[Dr Eleni Mangina](#)

Miguel A. Patricio, Jesús García, Juan M. Corchado, Javier Bajo, Alaa Khamis, and Eleni E. Mangina (Ed.). (2013) *International Journal of Distributed Sensor Networks*. Intelligent Systems in Context-Based Distributed Information Fusion: Hindawi Publishing Corporation. →🌐

[Dr James McDermott](#)

Romero, Juan, McDermott, James, Correia, João (Ed.). (2014) *Evolutionary and Biologically Inspired Music, Sound, Art and Design: Proceedings of EvoMUSART 2014*. Heidelberg: Springer. →🌐

[Dr Miguel Nicolau](#)

Miguel Nicolau and Krzysztof Krawiec and Malcolm I. Heywood and Mauro Castelli and Pablo Garcia-Sanchez and Juan J. Merelo and Victor M. Rivas Santos and Kevin Sim (Ed.). (2014) *Genetic Programming, 17th European Conference, EuroGP 2014, Granada, Spain, April 23-25, 2014, Proceedings*. Berlin: Springer. →🌐

[Professor Gregory O'Hare](#)

O'Grady, M.J.; Vahdat-Nejad, H.; Wolf, K.H.; Dragone, M.; Ye, J.; Röcker, C.; O'Hare, Gregory. M.P (Ed.). (2013) *Evolving Ambiente intelligence*. Germany: Springer International Publishing.

[Dr Tony Veale](#)

Tony Veale, Kurt Feyaerts, Charles Forceville (Ed.). (2013) *Creativity and the Agile Mind: A Multi-Disciplinary Study of a Multi-Faceted Phenomenon (Applications of Cognitive Linguistics)*. Amsterdam: Mouton De Gruyter. →🌐

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Peer Reviewed Journals

[Ms Andrea Ballatore](#)

Andrea Ballatore, Michela Bertolotto, David C. Wilson (2014) 'An evaluative baseline for geo-semantic relatedness and similarity'. *GEOINFORMATICA* . →🌐

Ballatore, A; Bertolotto, M; Wilson, DC (2013) 'Geographic Knowledge Extraction and Semantic Similarity in OpenStreetMap'. *Knowledge and Information Systems* . →🌐

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[Professor Julie Berndsen](#)

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[Dr Michela Bertolotto](#)

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McArdle, G; Tahir, A; Bertolotto, M (2014) 'Interpreting map usage patterns using geovisual analytics and spatio-temporal clustering'. *International Journal of Digital Earth*, :1-24. →🌐

Corcoran, P; Mooney, P; Bertolotto, M (2014) 'Interactive cartographic route descriptions'. *GEOINFORMATICA* .

Ballatore, A; Bertolotto, M; Wilson, DC (2013) 'Geographic Knowledge Extraction and Semantic Similarity in OpenStreetMap'. *Knowledge and Information Systems* . →🌐

Mosa, A.S.M., Schön, B., Bertolotto, M., Laefer, D.F.; (2013) 'Evaluating the benefits of Octree-based indexing for LiDAR data'. *Photogrammetric Engineering & Remote Sensing*, 78 (9):927-934.

A. Ballatore, D.C. Wilson, M. Bertolotto (2013) 'A Lexical Semantic Similarity Measure for Volunteered Geographic Concepts'. *International Journal of Geographical Information Science*, 27 (10):2099-2118.

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Pontarelli, S. et al. (2013) 'Low Complexity Concurrent Error Detection for Complex Multiplication'. *IEEE Transactions on Computers*, 62 (9):1899-1903. →🌐

[Dr Jonathan Byrne](#)

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Fenton M., McNally C., Byrne J., Hemberg E., JMcDermott J., O'Neill M. (2014) 'Automatic innovative truss design using grammatical evolution'. *Automation in Construction* .

Jonathan Byrne, Michael Fenton, Erik Hemberg, James McDermott, Michael O'Neill (2014) 'Optimising Complex Pylon Structures with Grammatical Evolution'. *Information*

Sciences .

[Dr Rem Collier](#)

Howell Jordan, Goetz Botterweck, John Noll, Andrew Butterfield, Rem Collier (2014) 'A feature model of actor, agent, functional, object, and procedural programming languages'. *Science of Computer Programming* .

[Dr Pádraig Corcoran](#)

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[Dr Fintan Costello](#)

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[Dr Fred Cummins](#)

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[Dr Soufiene Djahel](#)

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[Dr Pavel Gladyshev](#)

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[Dr Derek Greene](#)

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[Dr Neil Hurley](#)

Archambault, Daniel and Hurley, Neil (2014) 'Visualization of trends in subscriber attributes of communities on mobile telecommunications networks'. *Social Network Analysis and Mining*, 4 (1).

[Dr Georgiana Ifrim](#)

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[Professor Mark Keane](#)

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[Professor Mohand Kechadi](#)

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Clarke, D; Zhong, Z; Rychkov, V; Lastovetsky A (2014) 'FuPerMod: A Software Tool for the Optimization of Data-Parallel Applications on Heterogeneous Platforms'. *Journal of Supercomputing*, 69 (1):61-69.

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[Dr Florian Maire](#)

Maire, F. ; Douc, R.; Olsson, J. (2013) 'Partial Ordering of Inhomogeneous Markov Chains and Applications to Markov Chain Monte Carlo Methods'. *Annals of Statistics* .

[Dr Eleni Mangina](#)

Olapeju Latifat Ayoola and Eleni Mangina (2014) 'Personalisation of a U-Learning environment for Third Level Education'. *Higher Education*, 4 (1):54-60.

[Professor Joao Marques-Silva](#)

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Professor John Murphy

Djahel, S. and Doolan, R. and Muntean, G.-M. and Murphy, J. (2014) 'A Communications-oriented Perspective on Traffic Management Systems for Smart Cities: Challenges and Innovative Approaches'. *Communications Surveys Tutorials, IEEE*, PP (99):1-1.

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Miao Wang, Viliam Holub, John Murphy, Patrick O'Sullivan (2013) 'High volumes of event stream indexing and efficient multi-keyword searching for cloud monitoring'. *Future Generation Computer Systems* .

Professor Liam Murphy

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Dr Michael O'Mahony

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Fenton M., McNally C., Byrne J., Hemberg E., JMcDermott J., O'Neill M. (2014) 'Automatic innovative truss design using grammatical evolution'. *Automation in Construction* .

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[Dr Gianluca Pollastri](#)

C.Mirabello, A.Adelfio, G.Pollastri (2014) 'Reconstructing Protein Structures by Neural Network Pairwise Interaction Fields and Iterative Decoy Set Construction'. *Biomolecules*, 4 (1):160-180. →

P.Kukic, C.Mirabello, G.Tradigo, I.Walsh, P.Veltri, G.Pollastri (2014) 'Toward an accurate prediction of inter-residue distances in proteins using 2D recursive neural networks'. *BMC Bioinformatics*, 15 (6). →

A.Adelfio, V.Volpato, G.Pollastri (2013) 'SCLpredT: Ab initio and homology-based prediction of subcellular localization by N-to-1 neural networks'. *SpringerPlus*, 2 . →

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T.A.Holton, G.Pollastri, D.C.Shields, C.Mooney (2013) 'CPPpred: Prediction of Cell Penetrating Peptides'. *Bioinformatics*, 29 (23):3094-3096. →

[Professor Barry Smyth](#)

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[Mr Muhammad Tahir](#)

McArdle, G; Tahir, A; Bertolotto, M (2014) 'Interpreting map usage patterns using geovisual analytics and spatio-temporal clustering'. *International Journal of Digital Earth*, :1-24. →

[Dr Tony Veale](#)

Antonio Reyes, Paolo Rosso, Tony Veale (2013) 'A multidimensional approach for detecting irony in twitter'. *Language Resources And Evaluation*, 47 :239-268.

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Other Journals

[Dr Michela Bertolotto](#)

M. Bertolotto, P. Di Giovanni, M. Sebillio, G. Tortora, G. Vitiello (2014) 'The Information Technology in Support of Everyday Activities: Challenges and Opportunities of the Service Oriented Computing' *Mondo Digitale, AICA*, 49 .

A. Ballatore, M. Bertolotto, D. Wilson, (2013) 'The Semantic Similarity Ensemble' *Journal of Spatial Information Science*, 7 :27-44.

[Dr Pavel Gladyshev](#)

Joshua Isaac James, Pavel Gladyshev (2014) 'Automated inference of past action instances in digital investigations' *International Journal of Information Security*, :1-13.

[Dr Nhien An Le Khac](#)

M. Faheem, N-A. Le-Khac and M-T. Kechadi (2014) 'Smartphone Forensics Analysis: A Case Study for Obtaining Root Access of an Android Samsung S3 Device and Analyse the Image without an Expensive Commercial Tool' *Journal of Information Security*, 5 (3).

[Dr James McDermott](#)

James McDermott (2014) 'Visualizing Evolutionary Search Spaces' *SIGEvolution Newsletter*, 7 (1):2-10. →🌐

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Conference Publications

[Dr Félix Balado Pumarino](#)

Balado, F. (2014) The Role of Permutation Coding in Minimum-distortion Perfect Counterforensics *39th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Florence, Italy,

Haughton, D.; Balado, F. (2013) Security Study of Keyed DNA Data Embedding *1st IEEE Global Conference on Signal and Information Processing (GlobalSIP)*, Austin, USA,

Balado, F.; Haughton, D. (2013) Optimum Perfect Steganography of Memoryless Sources as a Rate-Distortion Problem *IEEE International Workshop on Information Forensics and Security (WIFS)*, Guangzhou, China, →🌐

[Professor Julie Berndsen](#)

Zahra, A. and J. Carson-Berndsen (2013) LIMA: A Spoken Language Identification Framework *15th International Conference, SPECOM 2013*, 195 - 202

[Dr Michela Bertolotto](#)

M. Bertolotto, P. Di Giovanni, M. Sebillio, G. Vitiello (2014) Standard-Based Integration of W3C and GeoSpatial Services: Quality Challenges *Proceedings 14th International Conference on Web Engineering (ICWE2014), Lecture Notes in Computer Science n. 8541, Springer-Verlag*, Toulouse, France, 460 - 469

M. Jilani, P. Corcoran, M. Bertolotto (2013) Multi-granular Street Network Representation towards Quality Assessment of OpenStreetMap Data *Proceedings 6th ACM SIGSPATIAL International Workshop on Computational Transportation Science (IWCTS)*, ACM Press, 19 - 24

[Dr Chris Bleakley](#)

Taylor, K. et al (2014) Lower Body Reaction Testing Using Ultrasonic Motion Capture *IEEE Engineering in Medicine and Biology Conf. (EMBC), 36th Annual Int*, Chicago, USA,

Siddig, A., Makki, A., and Bleakley, C.J. (2013) Lighthouse: Precise 802.11-based Localization *4th Int. Conf. on Indoor Positioning and Indoor Navigation (IPIN)*, Montbeliard-Belfort, France, →🌐

[Dr Jonathan Byrne](#)

Byrne, J., Nicolau, M., Brabazon, A. and O'Neill, M. (2014) An Examination of Synchronisation in Artificial Gene Regulatory Networks *IEEE World Congress on Computational Intelligence (IEEE WCCI 2014)*, Beijing, China, 2764 - 2769

Jonathan Byrne, Miguel Nicolau, Anthony Brabazon and Michael O'Neill (2014) Evolving an Aircraft Using a Parametric Design System *EvoApplications 2014, Evomusart, LNCS*,

[Dr Rem Collier](#)

Lina Xu, GMP O'Hare, Rem Collier (2014) A Balanced Energy-Efficient Multihop clustering scheme for Wireless Sensor Networks *Wireless and Mobile Networking Conference (WMNC)*,

Lina Xu, O'Grady M.J., O'Hare GMP, Collier R. (2014) Reliable multihop intra-cluster communication for Wireless Sensor Networks *Computing, Networking and Communications (ICNC)*,

Lillis, D. and Russell, S. and Carr, D. and Collier, R. W. and O'Hare, Gregory M. P. (2013) Intelligent Decision- Making in the Physical Environment *Fourth International Joint Conference on Ambient Intelligence (AmI 2013)*, Dublin, 235 - 240

O'Grady, M.J.; Murdoch, O.; Kroon, B.; Lillis, D.; Carr, D.; Collier, R.W.; O'Hare, G.M.P. (2013) Pervasive Sensing: Addressing the Heterogeneity Problem *Sensors \& their Applications XVII*, Dubrovnik, Croatia, →🌐

[Dr Fintan Costello](#)

Fintan Costello and Travis Mathison (2014) On fallacies and normative reasoning: when people's judgements follow probability theory *36th Annual Meeting of the Cognitive Science Society*, Quebec City, Canada, 361 - 366 →🌐

[Professor Pádraig Cunningham](#)

Qin, X., Salter-Townshend, M., Cunningham, P. (2014) Exploring the Relationship between Membership Turnover and Productivity in Online Communities *Eighth International Conference on Weblogs and Social Media (ICWSM 2014)*,

[Dr Neil Hurley](#)

McDaid, A., Hurley, N. and Murphy, T.B. (2014) Overlapping Stochastic Community Finding . In: Xindong Wu, Martin Ester, Guandong Xu eds. *2014 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM'14)*, Beijing, China,

Hurley, Neil (2013) Personalised Ranking with Diversity *ACM 7th Conference on Recommender Systems*, Hong Kong, China, →🌐

[Professor Mohand Kechadi](#)

B. Busstra, M. Tahar Kechadi and N-A. Le-Khac (2014) Android and Wireless data-extraction using Wi-Fi *4th IEEE international conference on Innovative Computing Technology (INTECH 2014)*,

Christos Sgaras, M. Tahar Kechadi and N-A. Le-Khac (2014) Forensics Acquisition and Analysis of instant messaging and VoIP applications *th IAPR International Workshop on Computational Forensics (IWCF 2014)*, Springer Verlag LNCS,

LeKhac, N.A., Kechadi, M-T. (2014) Forensics Acquisition of Tango VoIP *International Conference on Challenges in IT, Engineering and Technology (ICCIET 2014)*, Phuket, Thailand,

N-A. Le-Khac and M. Tahar Kechadi (2014) Toward a new cloud-based approach to preserve the privacy for detecting suspicious cases of money laundering *Global Premier International Conference on Cryptography and Security 2014 (ICCS 2014)*,

Houari, R., Bounceur, A., Kechadi, M-T., (2014) Handling Missing Data Problems with Sampling Methods *(INDS 2014)*, Bejaia, Algeria,

Farina, J., Scanlon, M. and Kechadi, M-T. (2014) BitTorrent Sync: First Impressions and Digital Forensic Implications *Digital Forensics Research Workshop (DFRWS EU 2014)*, Amsterdam, Netherlands,

Tobin, Patrick, Kechadi, M-T., (2014) Virtual Machine Forensics by means of Introspection and Kernel Code Injection *9th International Conference on Cyber Warfare and Security (ICCWS 2014)* West Lafayette, Indiana, USA,

Scanlon, M. and Kechadi, M-T (2014) The Case for a Collaborative Universal Peer-to-Peer Botnet Investigation Framework *9th International Conference on Cyber Warfare and Security (ICCWS-2014)*, CERIAS, Purdue University, Indiana, USA,

Bounceur, A., and Kechadi, M-T., (2014) CupCarbon: A Multi-Agent and Discrete Event Wireless Sensor Network Design and Simulation Tool Based-on the Open Street Map Framework *7th International ICST Conference on Simulation Tools and Techniques*, Lisbon, Portugal,

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