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IET Journals Premium (Best Paper) Awards

Each year the IET awards a prize to the authors of the best paper published within the last two years in each of the IET's journals.

A list of all winning papers can be found below, and the latest prize-winning paper for each journal can also be found on that journal's homepage.

2016 Premium (Best Paper) Award winners

2015 Premium (Best Paper) Award winners

2014 Premium (Best Paper) Award winners

2013 Premium (Best Paper) Award winners

Process

Papers must have been published within the two preceding years e.g. for the 2016 Award, papers were considered that had been published between 1st January 2014 and 31st December 2015.

The Editorial Board or Editorial Team considers all eligible papers and puts forward their nominations for each journal, based on consideration of a number of factors that may include: the significance of the scientific advance, impact, achievement and presentation of the paper, along with metrics such as the number of citations and downloads.

The winning paper is chosen from these nominations by the Editors-in-Chief of each journal.

All papers are considered regardless of the author's age or geographical location. Self-nominations are not allowed but if a paper by the Editor-in-Chief or a member of the Editorial Board is nominated by another member of the Editorial Team, an independent committee is set up to judge that paper's relative merits.

The final list of winning papers (one from each journal) is checked and endorsed by the IET Prizes and Awards Committee. The winners are then notified and receive a certificate.

Winning papers are not eligible to be considered for the prize the following year.

2016 Winners of the IET Premium (Best Paper) Awards

All of the 2016 prize-winning papers listed below are free to access on the IET Digital Library until August 2017.

Electronics Letters Premium Award

Gao, Z., Dai, L., Wang, Z.: 'Structured compressive sensing based superimposed pilot design in downlink large-scale MIMO systems', Electronics Letters, 2014, **50**, (12), pp. 896–898

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Micro & Nano Letters Premium Award

Chen, F., Xu, W., Lu, Y., Song, J., Huang, S., Wang, L., Parkin, I. P., Liu, X.: 'Hydrophilic patterning of superhydrophobic surfaces by atmospheric-pressure plasma jet', Micro & Nano Letters, 2015, **10**, (2), pp. 105-108

IET Biometrics Premium Award

Sousedik, C., Busch, C.: 'Presentation attack detection methods for fingerprint recognition systems', IET Biometrics, 2014, **3**, (4), pp. 219–233

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IET Communications Premium Award

Pittolo, A., Tonello, A.M.: 'Physical layer security in power line communication networks: an emerging scenario, other than wireless', IET Communications, 2014, **8**, (8), pp. 1239–1247

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IET Computers & Digital Techniques Premium Award

Trefzer, M.A., Walker, J.A., Bale, S.J., Tyrrell, A.M.: 'Fighting stochastic variability in a D-type flip-flop with transistor-level reconfiguration', IET Computers & Digital Techniques, 2015, **9**, (4), pp. 190-196

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IET Control Theory and Applications Premium Award

Zhang, X-M., Han, Q-L.: 'Event-triggered dynamic output feedback control for networked control systems', IET Control Theory and Applications, 2014, **8**, (4), pp. 226-234

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IET Electric Power Applications Premium Award

Rallabandi, V., Fernandes, B. G.: 'Design procedure of segmented rotor switched reluctance motor for direct drive applications', IET Electric Power Applications, 2014, **8**, (3), pp. 77-88

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IET Electrical Systems in Transportation Premium Award

Hu, S., Deng, J. Mi, C., Zhang, M..: 'Optimal design of line level control resonant converters in plug-in hybrid electric vehicle battery chargers', IET Electrical Systems in Transportation, 2014, **4**, (1), pp. 21-28

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IET Generation, Transmission & Distribution Premium Award

Zabaiou, T. Dessaint, L-A., Kamwa, I.: 'Preventive control approach for voltage stability improvement using voltage stability constrained optimal power flow based on static line voltage stability indices', IET Generation, Transmission & Distribution, 2014, 8, (5), pp. 924–934

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IET Image Processing Premium Award

Jiang, Y., Wang, M.: 'Image fusion using multiscale edge-preserving decomposition based on weighted least squares filter', IET Image Processing, 2014, **8**, (3), pp. 183-190

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IET Information Security Premium Award

Wang, H., Wu, Q., Qin, B., Domingo-Ferrer, J: 'Identity-based remote data possession checking in public clouds', IET Information Security, 2014, **8**, (2), pp. 114-121

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IET Intelligent Transport Systems Premium Award

Jung, S-J., Shin, H-S., Chung, W-Y.: 'Driver fatigue and drowsiness monitoring system with embedded electrocardiogram sensor on steering wheel', IET Intelligent Transport Systems, 2014, **8**, (1), pp. 43-50

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IET Microwaves, Antennas & Propagation Premium Award

Chaloun, T., Menzel, W., Tabarani, F., Purtova, T., Schumacher, H., Kaynak, M., Luo, Q., Gao, S., Starec, R., Ziegler, V.: 'Wide-angle scanning active transmit/receive reflectarray', IET Microwaves, Antennas & Propagation, 2014, 8, (11), pp. 811-818

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IET Nanobiotechnology Premium Award

Farkhani, S. M., Valizadeh, A.: 'Review: three synthesis methods of CdX (X = Se, S or Te) quantum dots', IET Nanobiotechnology, 2014, **8**, (2), pp. 59-76

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IET Networks Premium Award

Bhoi, S. K., Khilar, P. M.: 'Vehicular communication: a survey', IET Networks, 2014, **3**, (3), pp. 204-217

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IET Optoelectronics Premium Award

El-Gorashi, T.E.H., Dong, X., Elmirghani, J,M.H.: 'Green optical orthogonal frequency-division multiplexing networks', IET Optoelectronics, 2014, **8**, (3), pp. 137-148

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IET Power Electronics Premium Award

Krishnas, R., Soman, D.E., Kottayil, S.K., Leijon, M.: 'Pulse delay control for capacitor voltage balancing in a three-level boost neutral point clamped inverter', IET Power Electronics, 2015, **8**, (2), pp. 268–277

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IET Radar, Sonar & Navigation Premium Award

Jokanovic, B., Amin, M.G., Zhang, Y.D., Ahmad, F.: 'Multi-window time & frequency signature reconstruction from undersampled continuous-wave radar measurements for fall detection', IET Radar, Sonar & Navigation, 2015, **9**, (2), pp. 173-183/p>

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IET Renewable Power Generation Premium Award

Alexander, A., Thathan, M.: 'Modelling and analysis of modular multilevel converter for solar photovoltaic applications to improve power quality', IET Renewable Power Generation, 2015, **9**, (1), pp. 78-88

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IET Science, Measurement & Technology Premium Award

De Giorgi, M.G., Congedo, P.M., Malvoni, M.: 'Photovoltaic power forecasting using statistical methods: impact of weather data', IET Science, Measurement & Technology, 2014, **8**, (3), pp. 90-97

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IET Signal Processing Premium Award

Wei, D., Li, Y.: 'Reconstruction of multidimensional bandlimited signals from multichannel samples in linear canonical transform domain', IET Signal Processing, 2014, **8**, (6), pp. 647-657

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IET Software Premium Award

Liu, H., Liu, Y., Xue, G., Gao, Y.: 'Case study on software refactoring tactics', IET Software, 2014, **8**, (1), pp. 1-11

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IET Systems Biology Premium Award

Nguyen, L.K., Zhao, Q., Varusai, T.M., Kholodenko, B.N.: 'Ubiquitin chain specific auto-

ubiquitination triggers sustained oscillation, bistable switches and excitable firing', IET Systems Biology, 2014, **8**, (6), pp. 282-292

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IET Wireless Sensor Systems Premium Award

Cho, H-H., Chen, C-Y., Shih, T.K., Chao, H-C.: 'Survey on underwater delay/disruption tolerant wireless sensor network routing, IET Wireless Sensor Systems', 2014, **4**, (3), pp. 112-121

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2015 Winners of the IET Premium (Best Paper) Awards

All of the 2015 prize-winning papers listed below are free to access on the IET Digital Library until August 2016.

Electronics Letters Premium Award

Li, L., Chen, L., Zhu, J., Freeman, J., Dean, P., Valavanis, A., Davies, A.G., Linfield, E.H.: 'Terahertz quantum cascade lasers with >1 W output powers', Electronics Letters, 2014, **50**, (4), pp. 309–311

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Micro & Nano Letters Premium Award

Li, J., Han, Q., Chen, Y., Zhu, Z., Huang, W.: 'Investigation on structural colours in wing scales of butterfly Papilio peranthus Fabricius', Micro & Nano Letters, 2013, 8, (1), pp. 8-10

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IET Biometrics Premium Award

McCool, C., Wallace, R., McLaren, M., El Shafey, L., Marcel, S.: 'Session variability modelling for face authentication', IET Biometrics, 2013, **2**, (3), pp. 117–129

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IET Circuits, Devices & Systems Premium Award

Xu, Y., Pan, H.-B., He, S.-Z., Li, L.: 'Monolithic H-bridge brushless DC vibration motor driver with a highly sensitive Hall sensor in 0.18 μm complementary metal- oxide semiconductor technology', IET Circuits, Devices & Systems, 2013, **7**, (4), pp. 204-210

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IET Communications Premium Award

Zhao, L., Zheng, K., Long, H., Zhao, H., Wang, W.: 'Performance analysis for downlink massive multiple-input multiple-output system with channel state information delay under maximum ratio transmission precoding', IET Communications, 2014, **8**, (3), pp. 390–398

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IET Computer Vision Premium Award

Hong, S., Lee, H., Kim, E.: 'Probabilistic gait modelling and recognition', IET Computer Vision, 2013, **7**, (1), pp. 56-70

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IET Computers & Digital Techniques Premium Award

Dahir, N., Mak, T., Al-Dujaily, R., Yakovlev, A.: 'Highly adaptive and deadlock-free routing for three-dimensional networks-on-chip', IET Computers & Digital Techniques, 2013, **7**, (6), pp. 255-263

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IET Control Theory and Applications Premium Award

Ding, F., Liu, X., Chu, J.,: 'Gradient-based and least-squares-based iterative algorithms for Hammerstein systems using the hierarchical identification principle', IET Control Theory and Applications, 2013, 7, (2), pp. 176-184

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IET Electric Power Applications Premium Award

Ruba, M., Viorel, I.-A., Szabó, L.: 'Modular stator switched reluctance motor for fault tolerant drive systems', IET Electric Power Applications, 2013, 7, (3), pp. 159-169

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IET Electrical Systems in Transportation Premium Award

Allègre, A.-L., Bouscayrol, A., Trigui, R.: 'Flexible real-time control of a hybrid energy storage system for electric vehicles', IET Electrical Systems in Transportation, 2013, **3**, (3), pp. 79-85

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IET Generation, Transmission & Distribution Premium Award

Shahnia, F., Chandrasena, R.P.S., Rajakaruna, S., Ghosh, A.: 'Primary control level of parallel distributed energy resources converters in system of multiple interconnected autonomous microgrids within self-healing networks', IET Generation, Transmission & Distribution, 2014, 8, (2), pp. 203–222

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IET Image Processing Premium Award

Chouhan, R., Jha, R. K., Biswas, P. K.: 'Enhancement of dark and low-contrast images using dynamic stochastic resonance', IET Image Processing, 2013, 7, (2), pp. 174-184

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IET Information Security Premium Award

Li, X., Du, J.: 'Adaptive and attribute-based trust model for service-level agreement guarantee in cloud computing', IET Information Security, 2013, 7, (1), pp. 39-50

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IET Intelligent Transport Systems Premium Award

Shankar, R., Marco, J.: 'Method for estimating the energy consumption of electric vehicles and plug-in hybrid electric vehicles under real-world driving conditions', IET Intelligent Transport Systems, 2013, 7, (1), pp. 138-150

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IET Microwaves, Antennas & Propagation Premium Award

Kim, S., Cook, B., Le, T., Cooper, J., Lee, H., Lakafosis, V., Vyas, R., Moro, R., Bozzi, M., Georgiadis, A., Collado, A., Tentzeris, M.M.: 'Inkjet-printed antennas, sensors and circuits on paper substrate', IET Microwaves, Antennas & Propagation, 2013, 7, (10), pp. 858-868

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IET Nanobiotechnology Premium Award

Khorsand, F., Riahi, S., Fard, S.E., Kashanian, S., Naeemy, A., Larijani, B., Omidfar, K.: 'Development of 3-hydroxybutyrate dehydrogenase enzyme biosensor based on carbon nanotube-modified screen-printed electrode', IET Nanobiotechnology, 2013, 7, (1), pp. 1-6

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IET Networks Premium Award

Mavromoustakis, C.X., Mastorakis, G., Bourdena, A., Pallis, E.: 'Energy efficient resource sharing using a traffic-oriented routing scheme for cognitive radio networks', IET Networks, 2014, **3**, (1), pp. 54-63

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IET Optoelectronics Premium Award

Paudel, R., Ghassemlooy, Z., Le-Minh, H., Rajbhandari, S.: 'Modelling of free space optical link for ground-to-train communications using a Gaussian source', IET Optoelectronics, 2013, 7, (1), pp. 1-8

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IET Power Electronics Premium Award

Xu, J., Xie, S., Tang, T.: 'Evaluations of current control in weak grid case for grid-connected LCL-filtered inverter', IET Power Electronics, 2013, **6**, (2), pp. 227–234

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IET Radar, Sonar & Navigation Premium Award

Jau, P.-H., Tsai, Z.-M., Kuo, N.-C., Kao, J.-C., Lin, K.-Y., Chang, F.-R., Yang, E.-C., Wang, H.: 'Signal processing for harmonic pulse radar based on spread spectrum technology', IET Radar, Sonar & Navigation, 2014, **8**, (3), pp. 242-250

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IET Renewable Power Generation Premium Award

Serban, I., Teodorescu, R., Marinescu, C.: 'Energy storage systems impact on the short-term frequency stability of distributed autonomous microgrids, an analysis using aggregate models', IET Renewable Power Generation, 2013, **7**, (5), pp. 531-539

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IET Science, Measurement & Technology Premium Award

Lay-Ekuakille, A., Griffo, G., Vergallo, P.: 'Robust algorithm based on decimated Padè approximant technique for processing sensor data in leak detection in waterworks', IET Science, Measurement & Technology, 2013, 7, (5), pp. 256-264

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IET Signal Processing Premium Award

Gu, Y., Ding, F., Li, J.: 'State filtering and parameter estimation for linear systems with d-step state-delay', IET Signal Processing, 2014, **8**, (6), pp. 639-646

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IET Software Premium Award

Bertolino, A., Daoudagh, S., Lonetti, F., Marchetti, E., Schilders, L.: 'Automated testing of eXtensible Access Control Markup Language-based access control systems', IET Software, 2013, 7, (4), pp. 203–212

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IET Systems Biology Premium Award

Chuang, C.-H., Lin, C.-L., Chang, Y.-C., Jennawasin, T., Chen, P.-K.: 'Design of synthetic biological logic circuits based on evolutionary algorithm', IET Systems Biology, 2013, **7**, (4), pp. 89-105

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IET Wireless Sensor Systems Premium Award

Kumar, D.: "Performance analysis of energy efficient clustering protocols for maximising lifetime of wireless sensor networks', IET Wireless Sensor Systems, 2014, **4**, (1), pp. 9-16

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2014 Winners of the IET Premium (Best Paper) Awards

All of the 2014 prize-winning papers listed below are free to access on the IET Digital Library until August 2015.

Electronics Letters Premium Award

Moro, R., Agneessens, S., Rogier, H., Bozzi, M.: 'Wearable textile antenna in substrate integrated waveguide technology', Electronics Letters, 2012, **48**, (16), pp. 985–387

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Micro & Nano Letters Premium Award

Zhang, X., Zhang, J., Zhou, D., Wang, G.: 'Electrodeposition method synthesise gold nanoparticles—Prussian blue—graphene nanocomposite and its application in electrochemical sensor for H2O2', Micro & Nano Letters, 2012, 7, (1), pp. 60–63

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IET Biometrics Premium Award

Biggio, B., Akhtar, Z., Fumera, G., Marcialis, G.L., Roli, F.: 'Security evaluation of biometric authentication systems under real spoofing attacks', IET Biometrics, 2012, **1**, (1), pp. 11–24

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IET Circuits, Devices & Systems Premium Award

Castro-Carranza, A., Estrada, M., Nolasco, J.C., Cerdeira, A., Marsal, L.F., Iñíguez, B., Pallarès, J.: 'Organic thin-film transistor bias-dependent capacitance compact model in accumulation regime', IET Circuits, Devices & Systems, 2012, **6**, (2), pp. 130–135

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IET Communications Premium Award

Shokri-Ghadikolaei, H., Abdi, Y., Nasiri-Kenari, M.: 'Analytical and learning-based spectrum sensing time optimisation in cognitive radio systems', IET Communications, 2013, **7**, (5), pp. 480–489

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IET Computer Vision Premium Award

Niese, R., Al-Hamadi, A., Farag, A., Neumann, H., Michaelis, B.: 'Facial expression recognition based on geometric and optical flow features in colour image sequences', IET Computer Vision, 2012, **6**, (2), pp. 79–89

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IET Computers & Digital Techniques Premium Award

Jovanović, Ž., Milutinović, V.: 'FPGA accelerator for floating-point matrix multiplication', IET Computers & Digital Techniques, 2012, **6**, (4), pp. 249–256

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IET Control Theory and Applications Premium Award

Alexis, K., Nikolakopoulos, G., Tzes, A.: 'Model predictive quadrotor control: attitude, altitude and position experimental studies', IET Control Theory and Applications, 2012, **6**, (12), pp. 1812–1827

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IET Electric Power Applications Premium Award

Zhao, W.X., Cheng, M., Chau, K.T., Chan, C.C.: 'Control and operation of fault-tolerant flux-switching permanent-magnet motor drive with second harmonic current injection', IET Electric Power Applications, 2012, **6**, (9), pp. 707–715

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IET Electrical Systems in Transportation Premium Award

Chen, S.X., Gooi, H.B., Xia, N., Wang, M.Q.: 'Modelling of lithium-ion battery for online energy management systems', IET Electrical Systems in Transportation, 2012, **2**, (4), pp. 202–210

IET Generation, Transmission & Distribution Premium Award

Khan, H., Dasouki, S., Sreeram, V., Iu, H.H.C., Mishra, Y.: 'Universal active and reactive power control of electronically interfaced distributed generation sources in virtual power plants operating in gridconnected and islanding modes', IET Generation, Transmission & Distribution, 2013, 7, (8), pp. 202–210

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IET Image Processing Premium Award

Yang, F., Lu, H., Zhang, W., Yang, G.: 'Visual tracking via bag of features', IET Image Processing, 2012, **6**, (2), pp. 115–128

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IET Information Security Premium Award

Ge, A.-J., Ma, C.-G., Zhang, Z.-F.: 'Attribute-based signature scheme with constant size signature in the standard model', IET Information Security, 2012, **6**, (2), pp. 47–54

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IET Intelligent Transport Systems Premium Award

Pascale, A., Nicoli, M., Deflorio, F., Dalla Chiara, B., Spagnolini, U.: 'Wireless sensor networks for traffic management and road safety', IET Intelligent Transport Systems, 2012, **6**, (1), pp. 67–66

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IET Nanobiotechnology Premium Award

Shalumon, K.T., Chennazhi, K.P., Tamura, H., Kawahara, K., Nair, S.V., Jayakumar, R.: 'Fabrication of three-dimensional nano, micro and micro/nano scaffolds of porous poly(lactic acid) by electrospinning and comparison of cell infiltration by Z-stacking/three-dimensional projection technique', IET Nanobiotechnology, 2012, **6**, (1), pp. 16–25

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IET Microwaves, Antennas & Propagation Premium Award

Olgun, U., Chen, C.-C., Volakis, J.L.: 'Design of an efficient ambient WiFi energy harvesting system', IET Microwaves, Antennas & Propagation, 2012, **6**, (11), pp. 1200–1206

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IET Networks Premium Award

Li, C.-S., Chao, H.-C.: 'IPv6 auto-configuration VANET cross layer design based on IEEE 1609', IET Networks, 2012, 1, (4), pp. 199–206

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IET Optoelectronics Premium Award

Aladeloba, A.O., Phillips, A.J., Woolfson, M.S.: 'Improved bit error rate evaluation for optically pre-amplified free-space optical communication systems in turbulent atmosphere', IET Optoelectronics, 2012, **6**, (1), pp. 26–33

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IET Power Electronics Premium Award

Wojda, R.P., Kazimierczuk, M.K.: 'Winding resistance of litz-wire and multi-strand inductors', IET Power Electronics, 2012, **5**, (2), pp. 257–268

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IET Radar, Sonar & Navigation Premium Award

Ristic, B., Sherrah, J.: 'Bernoulli filter for joint detection and tracking of an extended object in clutter', IET Radar, Sonar & Navigation, 2013, **7**, (1), pp. 26–35

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IET Renewable Power Generation Premium Award

Ruiz-Rodriguez, F.J., Hernández, J.C., Jurado, F.: 'Probabilistic load flow for radial distribution networks with photovoltaic generators', IET Renewable Power Generation, 2012, **6**, (2), pp. 110–121

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IET Science, Measurement & Technology Premium Award

Chang, L., Hu, B., Chang, G., Li, A.: 'Huber-based novel robust unscented Kalman filter', IET Science, Measurement & Technology, 2012, **6**, (6), pp. 502–509

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IET Signal Processing Premium Award

Ding, F., Duan, H.: 'Two-stage parameter estimation algorithms for Box-Jenkins systems', IET Signal Processing, 2013, **7**, (8), pp. 646–654

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IET Software Premium Award

Misra, S., Akman, I., Colomo-Palacios, R.: 'Framework for evaluation and validation of software complexity measures', IET Software, 2012, **6**, (4), pp. 323–334

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IET Systems Biology Premium Award

Wallace, E.W.J., Gillespie, D.T., Sanft, K.R., Petzold, L.R.: 'Linear noise approximation is valid over limited times for any chemical system that is sufficiently large', IET Systems Biology, 2012, **6**, (4), pp. 102–115

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IET Wireless Sensor Systems Premium Award

Zairi, S., Zouari, B., Niel, E., Dumitrescu, E.: 'Nodes self-scheduling approach for maximising wireless sensor network lifetime based on remaining energy', IET Wireless Sensor Systems, 2012, **2**, (1), pp. 52–62

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2013 Winners of the IET Premium (Best Paper) Awards

Electronics Letters Premium Award

Krummenacher, F., Kayal, M., and Khosropour, N.: 'Fully integrated ultra-low power management system for micro-power solar energy harvesting applications', Electronics Letters, 2012, **48**, (6), pp. 338–339

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Micro & Nano Letters Premium Award

Ali, S.M.U., Kashif, M., Ibupoto, Z. H., Fakhar-E-Alam, M., Hashim, U., and Willander, M.: 'Functionalised zinc oxide nanotube arrays as electrochemical sensors for the selective determination of glucose', Micro & Nano Letters, 2011, **6**, (8), pp. 609 –613

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IET Biometrics Premium Award

Määttä, J., Hadid, A. and Pietikäinen, M.: 'Face spoofing detection from single images using texture and local shape analysis', IET Biometrics, **1**, (1), 2012, pp. 3–10

Thompson, M.G., Politi, A., Matthews, J.C.F. and O'Brien, J.L.: 'Integrated waveguide circuits for optical quantum computing', IET Circuits, Devices & Systems, 5, (2), 2011, pp. 94–102

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IET Communications Premium Award

Khirallah, C., Thompson, J.S., and Rashvand, H.: 'Energy and cost impacts of relay and femtocell deployments in long-term-evolution advanced', IET Communications, **5**, (18), 2011, pp. 2617–2628

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IET Computer Vision Premium Award

Xu, M., Ellis, T., Godsill, S. J., and Jones, G.A.: 'Visual tracking of partially observable targets with suboptimal filtering', IET Computer Vision, 2011, **5**, (1), pp. 1–13

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IET Control, Theory & Applications Premium Award

Li, Z., Duan, Z., and Chen, G.: 'Dynamic consensus of linear multi-agent systems', IET Control, Theory & Applications, **6**, (1), 2012, pp. 62–69

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IET Electric Power Applications Premium Award

Phan, V.-T., and Lee, H.-H.: "Improved predictive current control for unbalanced stand-alone doubly-fed induction generator-based wind power systems", IET Electric Power Applications, 2011, 5, (3), pp. 275–287

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IET Electrical Systems in Transportation Award

Elgammal, A.A.A., and Sharaf, A.M.: 'Self-regulating particle swarm optimised controller for (photovoltaic-fuel cell) battery charging of hybrid electric vehicles', IET Electrical Systems in Transportation, 2012, **2**, (2), pp. 77–89

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IET Generation, Transmission and Distribution Premium Award

De Kerf, K., Srivastava, K., Reza, M., Bekaert, D., Cole, S., Van Hertem, D., and Belmans, R.: 'Wavelet-based protection strategy for DC faults in multi-terminal VSC HVDC systems', IET Generation, Transmission and Distribution, 2011, **5**, (4), pp. 496–503

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IET Image Processing Premium Award

Chen, S.Y., Zhang, J., Guan, Q. and Liu, S.: 'Detection and amendment of shape distortions based on moment invariants for active shape models', IET Image Processing, 2011, 5, (3), pp. 273–285

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IET Information Security Premium Award

Mangard, S., Oswald E., and Standaert, F.-X.: 'One for all–all for one: unifying standard differential power', IET Information Security, 2011, **5**, (2), pp. 100–110

IET Intelligent Transport Systems Premium Award

Cocron, P., Bühler, F., Neumann, I., Franke, T., Krems, J.F., Schwalm, M., and Keinath, M.: 'Methods of evaluating electric vehicles from a user's perspective - the MINI E field trial in Berlin', IET Intelligent Transport Systems, 2011, 5, (2), pp. 127–133

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IET Microwaves, Antennas and Propagation Premium Award

Orecchini, G., Alimenti, F., Palazzari, V., Rida, A., Tentzeris, M.M., and Roselli, L.: 'Design and fabrication of ultra-low cost radio frequency identification antennas and tags exploiting paper substrates and inkjet printing technology', IET Microwaves, Antennas and Propagation, 2011, 5, (8), pp. 993–1001

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IET Nanobiotechnology Premium Award

Park, Y., Hong, Y. N., Weyers, A., Kim, Y. S., and Linhardt, R. J.: 'Polysaccharides and phytochemicals: a natural reservoir for the green synthesis of gold and silver nanoparticles', IET Nanobiotechnology, 2011, **5**, (3), pp. 69–78

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IET Networks Premium Award

Booysen, M.J., Zeadally, S., and van Rooyen, G.-J.: 'Performance comparison of media access control protocols for vehicular ad hoc networks', IET Networks, 2012, **1**, (1), pp. 10–19

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IET Optoelectronics Premium Award

Smit, M., Leijtens, X., Bente, E., Van der Tol, J., Ambrosius, H., Robbins, D., Wale, M., Grote, N., and Schell, M.: 'Generic foundry model for InP-based photonics', IET Optoelectronics, 2011, 5, (5), pp. 187–194

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IET Power Electronics Premium Award

Duan, R.-Y., and Lee, J.-D.: 'High-efficiency bidirectional DC-DC converter with coupled inductor', IET Power Electronics, 2012, **5**, (1), pp. 115–123

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IET Radar, Sonar and Navigation Premium Award

Samadi, S., Çetin, M., and Masnadi-Shirazi, M.A.: 'Sparse representation-based synthetic aperture radar imaging', IET Radar, Sonar and Navigation, 2011, **5**, (2), pp. 182–193

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IET Renewable Power Generation Premium Award

Xu, L., Yao, L.: 'DC voltage control and power dispatch of a multi-terminal HVDC system for integrating large offshore wind farms', IET Renewable Power Generation, 2011, 5, (3), pp. 223–233

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