Report of President 2011/2012 - School of Electrical, Electronic & Communications Engineering

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Book Chapters

Dr Andrew Keane


Professor Mark O'Malley


Dr Anding Zhu


Peer Reviewed Journals

Dr Elena Blokhina


Professor Thomas Brazil


Professor Anthony Fagan


Professor Orla Feely


Dr Mark Flanagan


P. Reviriego, M. F. Flanagan and J. A. Maestro; (2011) 'A (64,45) Triple Error

**Dr Damian Flynn**


Meegahapola, L; Fox, B; Littler, T; Flynn, D (2012) 'Multi-objective reactive power support from wind farms for network performance enhancement'. *European Trans Electrical Power*.


Holttinen, H; Ela, E; Milligan, M; Menemenlis, N; Dobschinski, J; Rawn, B; Bessa, R; Flynn, D; Gomez, E; Detlefsen, N (2012) 'Methodologies to determine operating reserves due to increased wind power'. *IEEE Transactions on Sustainable Energy*, 3 (4):713-723.


**Dr Peadar Grant**

Grant P.F. and Lowery M.M. (2012) 'Simulation of cortico-basal ganglia oscillations and their suppression by closed loop deep brain stimulation'. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*.

**Dr Andrew Keane**


Richardson, P; Flynn, D; Keane, A (2012) 'Local vs. centralised charging strategies for electric vehicles in low voltage distribution systems'. *IEEE Transactions on Sustainable Energy*. 

Dr Madeleine Lowery


Professor Mark O'Malley

Smith, CJ; Osborn, D; Zavadil, R; Lasher, W; G-Laro, E; Estanqueiro, A; Tr-he, Statnett T; Tande, J; Korp Mi; Van Hulle, F; Holttinen, H; Orths, A; Burke, D; O'Malley, M; Dobschinski, J; Rawn, B; Gibescu, M; Dale, L (2012) 'Transmission Planning for Wind Energy: Status and Prospects'. Wiley Interdisciplinary Reviews: Energy and Environment.
Burke, D; Tuohy, A; O'Malley, M (2012) 'Should Unit Commitment be Endogenously Included in Wind Power Transmission Planning Optimisation Models'. IET Renewable Power Generation.

Professor John Sheridan


**Other Journals**

**Dr Elena Blokhina**


**Conference Publications**

**Dr Elena Blokhina**


**Professor Thomas Brazil**

J. B. King and T. J. Brazil (2012) A comprehensive electrothermal GaN HEMT model including nonlinear thermal effects *Proceedings of the IEEE/IMS International Microwave Symposium 2012*,


**Professor Orla Feely**


**Dr Mark Flanagan**

E. Paolini, M. F. Flanagan, M. Chiani and M. P. C. Fossorier; (2011) Stability of
Iterative Decoding of Multi-Edge Type Doubly-Generalized LDPC Codes over the BEC
IEEE Global Communications Conference, Houston, Texas,
P. Reviriego, M. F. Flanagan and J. A. Maestro; (2011) Efficient Multibit Error Correction for Memory Applications using Euclidean Geometry Low-Density Parity-Check Codes Conference on Radiation Effects on Components and Systems 2011, Seville, Spain,

Dr Damian Flynn
Keane, E; Flynn, D (2012) Electric vehicles for power system flexibility Irish Transport Research Network Conference,
Artač, G; Flynn, D; Kladnik, B; Hajdinjak, M; Gubina, A (2012) Flexible demand influence on joint energy and reserve markets IEEE PES GM 2012,
Richardson, P; Flynn, D; Keane, A (2012) Optimal charging of electric vehicles in low-voltage distribution systems IEEE PES GM 2012,
Lannoye, E; Flynn, D; OMalley, M (2012) Assessment of power system flexibility: a high-level approach IEEE PES GM 2012,
Ruttledge, L; Flynn, D (2012) System-wide contribution to frequency response from variable speed wind turbines IEEE PES GM 2012,
Troy, N; Flynn, D; OMalley, M (2012) The importance of sub-hourly modeling with a high penetration of wind generation IEEE PES GM 2012,
Estanqueiro, A; Rygg Údal, A; ODwyer, C; Flynn, D; Huertas-Hernando, D; Lew, D G■-Laro, E; Ela, E; Revuelta, J; Kiviluoma, J; Rodrigues, L; Amelin, M; Holttinen, H (2012) Energy storage for wind integration: hydropower and other contributions IEEE PES GM 2012,
Lannoye, E; Flynn, D; OMalley, M (2012) Power system flexibility assessment - state of the art IEEE PES GM 2012,
Keane, E; Flynn, D (2012) Potential for electric vehicles to provide power system reserve IEEE 3rd Conference on Innovative Smart Grid Technologies,
Lannoye, E; Flynn, D; OMalley, M (2011) Evaluation of power system flexibility Risk and Reliability Modelling of Energy Systems,
D. Kavanagh, A. Keane, D. Flynn; (2011) Challenges posed by the integration of wave power onto the Irish power system European Wave and Tidal Energy Conference,
E. Keane, D. Flynn; (2011) Power system reserve from electric vehicles Irish Transport Research Network Conference,
L. Meegahapola, D. Flynn; (2011) Frequency dynamics during high CCGT and wind penetrations AUPEC 2011,

Dr Peadar Grant
Grant, Peadar F and Lowery, Madeleine M (2012) Contribution of dielectric dispersions to voltage waveforms arising from electrical stimulation 34th Annual IEEE Engineering in Medicine and Biology Society Annual Meeting,
Grant P.F. and Lowery M.M.; (2011) Adaptive DBS amplitude control DBS Dublin 2011,
Dr Andrew Keane


Dr Madeleine Lowery


Grant P.F. and Lowery M.M.; (2011) Adaptive DBS amplitude control DBS Dublin 2011,


Professor Mark O'Malley

Duignan, R; Dent, C; Mills, A; Samaan, N; Milligan, M; Keane, A; O'Malley, MJ (2012) Capacity Value of Solar IEEE Power and Energy Society Meeting, San Diego, USA.

O'Dwyer, C; Duignan, R; O'Malley, MJ (2012) Modelling Demand Response in the Residential Sector for the Provision of Reserves IEEE Power and Energy Society Meeting, San Diego, USA,


Troy, N; Flynn, D; O'Malley, MJ (2012) The Importance of Sub-Hourly Modelling with a High Penetration of Wind Generation IEEE Power and Energy Society Meeting, San Diego, USA,


Requirements for Integration of Wind Generation *45th Hawaii International Conference on System Sciences*, Hawaii, 1987 - 1986

Professor John Sheridan

Dr Anding Zhu


Published Reports

Professor Mark O'Malley

Kroposki, B; Garrett, B; Macmillan, S; Rice, B; Komomua, C; OMalley, MJ; Zimmerle, D; (2012) *Energy Systems Integration, A Convergence of Ideas*. National Renewable Energy Laboratory, USA.