

# Recent Publications – Research Institutes and Centres

BY MEMBERS OF THE STAFF AND BY RESEARCH STUDENTS WORKING UNDER THEIR SUPERVISION

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## ADAPT Centre For Digital Content Technology

**Attard, Judie**, 'A semantic data value vocabulary supporting data value assessment and measurement integration', *20th International Conference on Enterprise Information Systems (ICEIS)*, Portugal (2018), <https://doi.org/10.5220/0006777701330144> [Judie Attard, Rob Brennan]

'Semantic data ingestion for big data value-driven intelligent analytics', *4th international conference on big data innovations and applications*, Barcelona, Spain, IEEE (2018), 1-8 [Jeremy Debattista, Judie Attard, Rob Brennan]

'Challenges in value-driven data governance', *OTM confederated international conferences*, Valletta, Malta (2018), 546-554 [Judie Attard, Rob Brennan]

'Management of data value chains, a value monitoring capability maturity model', *20th International Conference on Enterprise Information Systems (ICEIS)*, eds Olivier Camp and Joaquim Filipe, Portugal (2018), <http://hdl.handle.net/2262/82277> [Rob Brennan, Judie Attard, Markus Helfurt]

**Brennan, Sabina**, 'Depressive symptoms predict increased social and emotional loneliness in older adults', *Ageing and Mental Health (CAMH)* (2018), <https://doi.org/10.1080/13607863.2018.1517728> [J.E. McHugh-Power, C. Hannigan, P. Hyland, F. Kee, S. Brennan, B. Lawlor]

'Cognitive rehabilitation for early stage Alzheimer's disease: a pilot study with an Irish population', *Irish Journal of Psychological Medicine* (2017), 1-17 [M.E. Kelly, B.A. Lawlor, R.F. Coen, I.H. Robertson, S. Brennan]

**Debattista, Jeremy**, 'Expressing multimedia content using semantics - a vision', *IEEE 12th International Conference on Semantic Computing (ICSC)* (2018), 302-303 [Jeremy Debattista, Fahim A. Salim, Fasih Haider, Clare Conran, Owen Conlan, Keith Curtis, Wang Wei, Ademar Crotti Junior, Declan O'Sullivan]

'Literally better: analyzing and improving the quality of literals', *Semantic Web* (2017), 1-20 [Wouter Beek, Filip Ilijevski, Jeremy Debattista, Stefan Schlobach, Jan Wielemaker]

'Semantic data ingestion for big data value-driven intelligent analytics', *4th international conference on big data innovations and applications*, Barcelona, Spain, IEEE (2018), 1-8 [Jeremy Debattista, Judie Attard, Rob Brennan]

'Evaluating the quality of the LOD cloud: an empirical investigation', *Semantic Web*, 9, 6 (2018), 859-901 [Jeremy Debattista, Christoph Lange, Sören Auer, Dominic Cortis]

'Leveraging pharmacy medical records to predict diabetes using a random forest and artificial neural network', *Proceedings for the 26th AIAI Irish conference on artificial intelligence and cognitive science*, Trinity College Dublin, Dublin, Ireland, December 6-7th, (2018), 279-290 [Stephen Lavery, Jeremy Debattista]

## Recent publications – Research Institutes and Centres

- 'Understanding information professionals: a survey on the quality of linked data sources for digital libraries', *On the move to meaningful internet systems, OTM 2018 Conferences-Confederated International Conferences: CoopIS, C and TC, and ODBASE, Proceedings Part II*, 537-545 [Jeremy Debattista, Lucy McKenna, Rob Brennan]
- 'InsurTech', *Disrupting finance*, eds T. Lynn, J. Mooney, P. Rosati, M. Cummins, Palgrave Pivot, Cham (2019), 71-84 [Dominic Cortis, Jeremy Debattista, Johann Debono, Mark Farrell]
- Debruyne, Christophe, 'Extension of the M-Gov ontology mapping framework for increased traceability', *OM-2017: Proceedings of the twelfth international workshop on ontology matching, ISWC: Ontology Matching 2017*, Vienna, Austria (2017), 49-60 [Anuj Singh, Christophe Debruyne, Rob Brennan, Alan Meehan, Declan O'Sullivan]
- 'Juma uplift: using a block metaphor for representing uplift mappings', *Proceedings of the 12th IEEE International Conference on Semantic Computing (ICSC 2018)*, Laguna Hills, CA, USA, IEEE Computer Society (2018), 211-218 [Ademar Crotti, Christophe Debruyne, Declan O'Sullivan]
- 'On the overlooked challenges of link discovery', *3rd international workshop on geospatial linked data at 15th international Extended Semantic Web Conference (ESWC 2018)*, Heraklion, Crete, Greece, CEUR-WS (2018), 41-46 [Peru Bhardwaj, Christophe Debruyne, Declan O'Sullivan]
- 'Understanding the position of information professionals with regards to linked data: a survey of libraries, archives and museums', *ACM/IEEE Joint Conference on Digital Libraries (JCDL 2018)*, Fort Worth, Texas, USA, ACM/IEEE (2018), 22-28 [Lucy Mc Kenna, Christophe Debruyne, Declan O'Sullivan]
- 'Generating executable mappings from RDF data cube data structure definitions', *on the move to meaningful internet systems. OTM 2018 Conferences - Confederated International Conferences: CoopIS, C and TC, and ODBASE 2018*, eds Hervé Panetto, Christophe Debruyne, Henderik A. Proper, Claudio Agostino Ardagna, Dumitru Roman, Robert Meersman, Valletta, Malta, Springer (2018), 333-350 [Christophe Debruyne, Dave Lewis, Declan O'Sullivan]
- Fatema, Kaniz, 'Integrating the management of personal data protection and open science with research ethics', *First ACL workshop on ethics in natural language processing*, Valencia, Spain, ACL (2017), 60-65 [Dave Lewis, Joss Moorkens, Kaniz Fatema]
- Jassim, Wissam, 'Phoneme classification using the auditory neurogram', *IEEE Access*, 5 (2017), 633-642 [M.S. Alam, M.S.A. Zilany, Wissam A. Jassim, M.Y. Ahmad]
- 'Speech emotion classification using combined neurogram and INTERSPEECH 2010 paralinguistic challenge features', *IET Signal Processing*, 11, 5 (2017), 587-595 [Wissam A. Jassim, R. Paramesran, N. Harte]
- 'On computational aspects of tchebichef polynomials for higher polynomial order', *IEEE Access*, 5 (2017), 2470-2478 [S.H. Abdulhussain, A.R. Ramli, S.A.R. Al-Haddad, B.M. Mahmmod, Wissam A. Jassim]
- 'Low-distortion MMSE speech enhancement estimator based on laplacian prior', *IEEE Access*, 5 (2017), 9866-9881 [B.M. Mahmmod, A.R. Ramli, S.H. Abdulhussain, S.A.R. Al-Haddad, Wissam A. Jassim]
- 'Image edge detection operators based on orthogonal polynomials', *International Journal of Image and Data Fusion*, 8, 3 (2017), 293-308 [Sadiq H. Abdulhussain, Abd. Rahman Ramli, Basheera M. Mahmmod, S.A.R. Al-Haddad, Wissam A. Jassim]
- 'Radon transform of auditory neurograms: a robust feature set for phoneme classification', *IET Signal Processing*, 12, 3 (2018), 260-268 [M.S. Alam, Wissam A. Jassim, M.S.A. Zilany]
- 'Signal compression and enhancement using a new orthogonal-polynomial-based discrete transform', *IET Signal Processing*, 12, 1 (2018), 129-142 [B.M. Mahmmod, A.R. b. Ramli, S.H. Abdulhussain, S.A.R. Al-Haddad, Wissam A. Jassim]

## Recent publications – Research Institutes and Centres

- 'Fast recursive computation of Krawtchouk polynomials', *Journal of Mathematical Imaging and Vision*, 30, 3 (2018), 285-303 [Sadiq H. Abdhussain, Abd Rahman Ramli, Syed Abdul Rahman Al-Haddad, Basheera M. Mahmmod, Wissam A. Jassim]
- Karaali, Ali*, 'Edge-based defocus blur estimation with adaptive scale selection', *IEEE Transactions on Image Processing* (2018), <http://dx.doi.org/10.1109/TIP.2017.2771563> [Ali Karaali, Claudio Rosito Jung]
- 'Temporal consistency for still image based defocus blur estimation methods', *IEEE international conference on image processing* (2018), <http://dx.doi.org/10.1109/ICIP.2018.8451778> [Ali Karaali, Claudio Rosito Jung, Francois Pitie]
- 'The impact of reduced video quality on visual speech recognition', *IEEE international conference on image processing* (2018), <http://dx.doi.org/10.1109/ICIP.2018.8451754> [Laura Dungan, Ali Karaali, Naomi Harte]
- Krylov, Vladimir*, 'Automatic discovery and geotagging of objects from street view imagery', *Remote Sensing*, 10, 5 (2018), 661 [Vladimir A. Krylov, Eamonn Kenny, Rozenn Dahyot]
- Orlandi, Fabrizio*, 'A big data architecture for managing oceans of data and maritime applications', *2017 international conference on engineering, technology and innovation: engineering, technology and innovation management beyond 2020: new challenges, new approaches, ICE/ITMC 2017 - Proceedings*, 2018-January (2018), 1216-1226 [I. Lytra, M.E. Vidal, F. Orlandi, J. Attard]
- 'Classifying data heterogeneity within budget and spending open data', *ACM International Conference Proceeding Series* (2018), 81-90 [F.A. Musyaffa, F. Orlandi, M.E. Vidal, H. Jabeen]

## Associated Colleges

- Egan, Alison*, 'Use of technology by pre-service teachers on school placement - an Irish perspective', *International Technology, Education and Development Conference (INTED)*, eds L. Gomez Chova, A. Lopez Martinez, I. Candel Torres, Valencia (2017), 1345-1354 [A. Egan, A. FitzGibbon, K. Johnston, E. Oldham]

## Centre for Research on Adaptive Nanostructures and Nanodevices (CRANN)

- Caffrey, Nuala*, 'Adsorption of common solvent molecules on graphene and MoS<sub>2</sub> from first-principles', *The Journal of Chemical Physics*, 149 (2018), 094702 [Urvesh Patil, Nuala M. Caffrey]
- 'Assembling 2D MXenes into highly stable pseudocapacitive electrodes with high power and energy densities', *Advanced Materials* (2018), <http://dx.doi.org/10.1002/adma.201806931> [Nuala Mai Caffrey, Armin Vahid Mohammadi, Mehrnaz Mojtabavi, Meni Wanunu, Majid Beidaghi]
- 'Effect of mixed surface terminations on the structural and electrochemical properties of two-dimensional Ti<sub>3</sub>C<sub>2</sub>T<sub>2</sub> and V<sub>2</sub>CT<sub>2</sub> MXenes', *Nanoscale*, 10(2018), 13520 [Nuala M. Caffrey]
- Gatensby, Riley*, 'Saturation of two-photon absorption in layered transition metal dichalcogenides: experiment and theory', *ACS Photonics*, 5, 4 (2018), 1558-1565 [N. Dong, Y. Li, S. Zhang, N. McEvoy, R. Gatensby, G.S. Duesberg, J. Wang]
- 'Field-dependent electrical and thermal transport in polycrystalline WSe<sub>2</sub>', *Advanced Materials Interfaces*, 5, 11 (2018), 1701161 [W. Kim, H. Kim, T. Hallam, N. McEvoy, R. Gatensby, H.C. Nerl]
- Jennings, Brian*, 'Characterisation of multi-mode propagation in silicon nitride slab waveguides', *Journal of Optics (United Kingdom)*, 19, 1 (2017), 015604 [B.D. Jennings, D. McCloskey, J.J. Gough, T. Hoang, N. Abadia, C. Zhong, E. Karademir, A.L. Bradley, J.F. Donegan]

## Recent publications – Research Institutes and Centres

- 'Planar focusing element based on scattering structures in a dielectric waveguide', *2018 Conference on Lasers and Electro-Optics, CLEO 2018, CLEO: Applications and Technology*, OSA (2018), 1 [Brian D. Jennings, David McCloskey, Alexander Krichevsky, Christopher Wolf, Frank Bello, Ertugrul Karademir, John F. Donegan]
- 'High coupling efficiency adiabatic near-field transducer for (HAMR)', *2018 Conference on Lasers and Electro-Optics, CLEO 2018, CLEO: Applications and Technology*, OSA (2018), 1 [Chuan Zhong, Patrick Flanigan, Nicolás Abadía, Brian Jennings, Frank Bello, Gwenael Atcheson, Jing Li, Jian-Yao Zheng, Richard Hobbs, David McCloskey, John F. Donegan]
- 'Effective heat dissipation in an adiabatic near-field transducer for HAMR', *Optics Express*, 26, 15 (2018), 18842-18854 [Chuan Zhong, Patrick Flanigan, Nicolás Abadía (...), Brian D. Jennings *et al*]
- 'Focusing element formed by scattering structures in a planar dielectric waveguide', *Optics Letters*, 43, 15 (2018), 3477-3480 [Brian D. Jennings, Frank Bello, Alexander Krichevsky, Christopher Wolf, Ertugrul Karademir, Robert Whelan, John F. Donegan, David McCloskey]
- McEvoy, Niall*, 'Stamping of flexible, coplanar micro-supercapacitors using MXene inks', *Advanced Functional Materials* (2018), 10 [Chuanfang (John) Zhang, Matthias P. Kremer, Andrés Seral-Ascaso, Sang-Hoon Park, Niall McEvoy, Babak Anasori, Yury Gogotsi, Valeria Nicolosi]
- 'Field-dependent electrical and thermal transport in polycrystalline WSe<sub>2</sub>', *Advanced Materials Interfaces*, 5, 11 (2018), 1701161 [W. Kim, H. Kim, T. Hallam, N. McEvoy, R. Gatensby, H.C. Nerl]
- 'Saturation of two-photon absorption in layered transition metal dichalcogenides: experiment and theory', *ACS Photonics*, 5, 4 (2018), 1558-1565 [N. Dong, Y. Li, S. Zhang, N. McEvoy, R. Gatensby, G.S. Duesberg, J. Wang]
- 'Monolayer-enriched production of Au-decorated WS<sub>2</sub> nanosheets via defect engineering', *MRS Advances*, 3, 41 (2018), 2435-2440 [J.R. Dunklin, P. Lafargue, T.M. Higgins (...), N. McEvoy *et al.*]
- 'Highly sensitive electromechanical piezoresistive pressure sensors based on large-area layered PtSe<sub>2</sub> films', *Nano Letters*, 18, 6 (2018), 3738-3745 [S. Wagner, C. Yim, N. McEvoy (...), G.S. Duesberg, M.C. Lemme]
- 'Effects of excitonic resonance on second and third order nonlinear scattering from few-layer MoS<sub>2</sub>', *ACS Photonics*, 5, 4 (2018), 1235-1240 [N.K. Balla, M. O'Brien, N. McEvoy, G.S. Duesberg, H. Rigneault, S. Brasselet, D. McCloskey]
- 'Wafer-scale fabrication of recessed-channel PtSe<sub>2</sub>MOSFETs with low contact resistance and improved gate control', *IEEE Transactions on Electron Devices* (2018), 4102-4108 [L. Li, K. Xiong, R.J. Marstell (...), N. McEvoy *et al.*]
- 'In situ formed protective barrier enabled by sulfur at titanium carbide (MXene) ink for achieving high-capacity, long lifetime Li-S batteries', *Advanced Science* (2018), <http://hdl.handle.net/2262/83991> [H. Tang, W. Li, L. Pan, C.P. Cullen, Y. Liu, A. Pakdel, D. Long, J. Yang, N. McEvoy, G.S. Duesberg, V. Nicolosi, C.J. Zhang]
- 'Wide spectral photoresponse of layered platinum diselenide-based photodiodes', *Nano Letters*, 18, 3 (2018), 1794-1800 [C. Yim, N. McEvoy, S. Riazimehr, D.S. Schneider, F. Gity, S. Monaghan, P.K. Hurley, M.C. Lemme, G.S. Duesberg]
- Mokarian, Parvaneh*, 'Large block copolymer self-assembly for fabrication of subwavelength nanostructures for applications in optics', *Nano Letters*, 17, 5 (2017), 2973-2978 [P. Mokarian-Tabari, R. Sentharamaikkannan, C. Glynn, T.W. Collins, C. Cummins, D. Nugent, C. O'Dwyer, M.A. Morris.]

## Recent publications – Research Institutes and Centres

- 'Selective molecular annealing: in situ small angle x-ray scattering study of microwave-assisted annealing of block copolymers', *Physical Chemistry Chemical Physics*, 19, 31 (2017), 20412-20419 [Daniel T.W. Toolan, Kevin Adlington, Anna Isakova (...), Parvaneh Mokarian-Tabari *et al.*]
- 'Preparation of cytocompatible ITO neuroelectrodes with enhanced electrochemical characteristics using a facile anodic oxidation process', *Advanced Functional Materials*, 28, 12 (2017), 1605035 [Catalina Vallejo-Giraldo, Niccolò Paolo Pampaloni, Anuradha R. Pallipurath (...), Parvaneh Mokarian-Tabari *et al.*]
- O Coileain, Cormac, 'Increasing the refractive index of materials via nanolamination: a-IGZO/TiO<sub>2</sub> nanolaminates', *Physical Review Materials*, 2, 9 (2018), 096002 [David Caffrey, David, Emma Norton, Cormac O'Coileain, Christopher M. Smith, Igor V. Shvets, Karsten Fleischer]
- Rydzek, Gauthier, 'Electrotriggered confined self-assembly of metal-polyphenol nanocoatings using a morphogenic approach', *Chemistry of Materials*, 29, 22 (2017), 9668-9679 [Clément Maerten, Lionel Lopez, Paolo Lupattelli, Gauthier Rydzek, Sergey Pronkin, Pierre Schaaf, Loic Jerry, Fouzia Boulmedais]
- 'Electro-click construction of hybrid nanocapsule films with triggered delivery properties', *Physical Chemistry Chemical Physics*, 20, 4 (2018), 2761-2770 [Flavien Sciortino, Gauthier Rydzek, Fabien Grasset, Myrtil L. Kahn, Jonathan P. Hill, Soizic Chevance, Fabienne Gauffre, Katsuhiko Ariga]

## CONNECT

- Dey, Indrakshi, 'Average error rates and achievable capacity in large office indoor wireless environments', *IEEE Transactions on Communications* (2017), <http://hdl.handle.net/2262/85310> [I. Dey, G.G. Messier, S. Magierowski]
- Kwak, Jungho, 'Two time-scale content caching and user association in 5G heterogeneous networks', *IEEE global communication conferences (GLOBECOM)*, Singapore (2017), 1-6 [Jeongho Kwak, Long Bao Le, Xianbin Wang]
- 'Dynamic cache rental and content caching in elastic wireless CDNs', *WiOpt*, Shanghai (2018), 1-8 [Jeongho Kwak, Georgios Paschos, George Iosifidis]
- Mir, Sajjad, 'Ferroelasticity in an organic crystal: a macroscopic and molecular level study', *Angew. Chem. Int. Ed.*, 56, 50 (2017), 15882-15885 [Sajjad Husain Mir, Yuichi Takasaki, Emile Richard Engel, Satoshi Takamizawa]
- 'Conductive polymer-Ag honeycomb thin film: the factors affecting the complexity of the microstructure', *Journal of The Electrochemical Society*, 165, 8 (2018), B3030-B3034 [Sajjad Husain Mir, Bungo Ochiai]
- 'Hybrid micromolding of silver micro fiber doped electrically conductive elastomeric composite polymer for flexible sensors and electronic devices', *Microsystem Technologies* (2017), 1-6 [S. Shah, M.D.N.I. Shiblee, S.H. Mir, L.A. Nagahara, T. Thundat, P.K. Sekhar, M. Kawakami, H. Furukawa, A. Khosla]
- 'Ferroelasticity in an organic crystal: a macroscopic and molecular level study', *Angewandte Chemie - International Edition*, 56, 50 (2017), 15882-15885 [S.H. Mir, Y. Takasaki, E.R. Engel, S. Takamizawa]
- 'Synthesis and characterization of an efficient hole-conductor free halide perovskite CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> semiconductor absorber based photovoltaic device for IOT', *Journal of The Electrochemical Society*, 165, 8 (2018), B3023-B3029 [Khurshed Ahmad Parrey, Anver Aziz, S.G. Ansari, Sajjad Husain Mir, Ajit Khosla, Asad Niazi]
- '3D printing of electrically conductive hybrid organic-inorganic composite materials', *Microsystem Technologies* (2018), 1-5 [S. Shah, M.D.N.I. Shiblee, J.M.H. Rahman, S. Basher, S.H. Mir, M. Kawakami, H. Furukawa, A. Khosla]

## Recent publications – Research Institutes and Centres

'Alignment of Ag nanoparticles with graft copolymer bearing thiocarbonyl moieties', *Microsystem Technologies*, 24, 1 (2018), 605-611 [S.H. Mir, K. Ebata, H. Yanagiya, B. Ochiai]

'An organoferroelasticity driven by molecular conformational change', *Physical Chemistry Chemical Physics*, 20, 7 (2018), 4631-4635 [Sajjad Husain Mir, Yuichi Takasaki, Satoshi Takamizawa]

'Density, excess molar volume and some of their derived properties of the binary systems of methyl acetate with methyl derivatives of monoethanolamine between 293.15 and 313.15 K', *Microsystem Technologies* (2018), 1-15 [M.K.M.Z. Hyder, S. Akhtar, S.H. Mir, A. Khosla]

'Enhancement of dissipated energy by large bending of an organic single crystal undergoing twinning deformation', *RSC Advances*, 8 (2018), 21933-21936 [Sajjad Husain Mir, Yuichi Takasaki, Emile Richard Engel, Satoshi Takamizawa]

'Review - organic-inorganic hybrid functional materials: an integrated platform for applied technologies', *Journal of The Electrochemical Society*, 165, 8 (2018), B3137-B3156 [Sajjad Husain Mir, Larry Akio Nagahara, Thomas Thundat, Parvaneh Mokarian-Tabari, Hidemitsu Furukawa, Ajit Khosla]

'Carbon fiber doped thermosetting elastomer for flexible sensors: physical properties and microfabrication', *Nature Scientific Reports*, 8, 12313 (2018), 1-8 [A. Khosla, S. Shah, M.D.N.I. Shiblee, S.H. Mir, L.A. Nagahara, T. Thundat, P.K. Shekar, M. Kawakami, H. Furukawa ]

'Exploring supramolecular aggregation behaviour of bioactive thiazolidine-4-carboxylic acid derivatives', *Microsystem Technologies* (2018), 1-10 [R.M. Jagtap, S.K. Pardeshi, Aiman Nabi, Zakir Hussain, Sajjad Husain Mir, Masood Ahmad Rizvi]

## Trinity Access Programmes (TAP)

*Bray, Aibhin*, 'Mathematics and science teaching in the contemporary classroom: current perspectives and suggestions for professional development', *2017 ATEE annual conference: conference proceedings - changing perspectives and approaches in contemporary teaching*, eds Marija Sablic, Alma Skugornd, Ivana Durdevic Babic, Dubrovnik, Croatia (2018), 1-18 [Aibhin Bray, Elizabeth Oldham, Ciarán Bauer]

## Trinity Centre for Bioengineering

*O'Brien, Fergal*, 'An endochondral ossification approach to early-stage bone repair: use of tissue-engineered hypertrophic cartilage constructs as primordial templates for weight-bearing bone repair', *Journal of Tissue Engineering and Regenerative Medicine* (2018), e2147-e2150 [Amos Matsiko, Emmet M. Thompson, Cai Lloyd-Griffith, Gráinne M. Cunniffe, Tatiana Vinardell, John P. Gleeson, Daniel J. Kelly, Fergal J. O'Brien,]

## Trinity Centre for Gender Equality and Leadership

*Bencivenga, Rita*, 'Gender in Horizon 2020: the case of gender equality plans', *AboutGender International Journal of Gender Studies*, 6, 12 (2017), 326-355 [Eileen Drew, Rita Bencivenga, Brigitte Ratzer, Barbara Poggio, Gülsün Saglamer]

'Translating the initial assessment of migrants' informal learning in practice', *Studies in the Education of Adults*, 49, 2 (2017), 136-156 [Rita Bencivenga]

'The 'digital curious': first steps towards a new typology for mapping adults' relationships with others when using ICT', *European journal for Research on the Education and Learning of Adults*, 8, 1 (2017), 55-76 [Rita Bencivenga]

'Adults' perception of MOOC as part of a constellation of cultural experiences', *Communications in computer and information science, learning technology for education challenges: 7th international workshop, LTEC 2018*, eds L. Uden, D. Liberona and J. Ristvej, Zilina, Slovakia, Springer, Cham (2018), 299-309 [Rita Bencivenga]

## Recent publications – Research Institutes and Centres

### Trinity College Institute of Neuroscience (TCIN)

*Doherty, Colin*, 'Seizures in HIV: the case for special consideration', *Epilepsy and Behavior Case Reports*, 10 (2018), 38-43 [L. Zaporojan, P.H. McNamara, J.A. Williams, C. Bergin, J. Redmond, C.P. Doherty]

'Structural brain abnormalities in the common epilepsies assessed in a worldwide ENIGMA study', *Brain*, 141, 2 (2018), 391-408 [C.D. Whelan, A. Altmann, N. Jahanshad (...), C.P. Doherty *et al.*]

*Rode, Karsten*, 'Magneto-optic Kerr effect in a spin-polarized zero-moment ferrimagnet', *Physical Review B*, 98, 13 (2018), <http://dx.doi.org/10.1103/PhysRevB.98.134445> [Karsten Fleischer, Naganivetha Thiyagarajah, Yong-Chang Lau, Davide Betto, Kiril Borisov, Christopher C. Smith, Igor V. Shvets, J.M.D. Coey, Karsten Rode]

'Magnetization and anisotropy of cobalt ferrite thin films', *Physical Review Materials*, 1, 7 (2017), 074413 [F. Eskandari, S.B. Porter, M. Venkatesan, P. Kameli, K. Rode, and J.M.D. Coey]

### Trinity Centre for People with Intellectual Disabilities (TCPID)

*Kubiak, John*, 'Developing post-secondary education programmes for people with intellectual disabilities in Trinity College, the University of Dublin', *People with intellectual disability experiencing university life*, eds Patricia O'Brien, Michele Bonati, Friederike Gadow, Roger Slee, The Netherlands, Sense Publications (2019), 141-153 [J. Kubiak, N. Spassiani, M. Shevlin, M. O'Keefe]

### Trinity Long Room Hub

*Payne, Elspeth*, 'A bit of news which you may, or may not, care to use': The Beaverbrook-Healy friendship and British newspapers 1922-1931', *Media History*, 24, 3-4 (2018), 379-394 [Elspeth Payne]

### Trinity Online Services

*Gallagher, Silvia*, 'Development education on a massive scale: evaluations and reflections on a massive open online course on sustainable development', *Policy and Practice: A Development Education Review*, 26 (2018), 122-140 [S. Gallagher]

### Trinity Translational Medicine Institute (TTMI)

*Movia, Dania*, 'Towards the identification of an in vitro tool for assessing the biological behavior of aerosol supplied nanomaterials', *International Journal of Environmental Research and Public Health*, 15, 4 (2018), <http://dx.doi.org/10.3390/ijerph15040563> [L. Di Cristo, C.M. Maguire, K. Mc Quillan, M. Aleardi, Y. Volkov, D. Movia, A. Prina-Mello]

### Volograms

*Ondrej, Jan*, 'Trending paths: a new semantic-level metric for comparing simulated and read crowd data', *IEEE transactions on visualization and computer graphics*, 23, 5 (2017), 1454-1464 [He Wang, Jan Ondrej, Carol O'Sullivan]

'Crowded environments reduce spatial memory in older but not younger adults', *Psychological Research*, 82 (2018), 407-428 [Niamh A. Merriman, Jan Ondrej, Alicia Rybicki, Eugenie Roudaia, Carol O'Sullivan, Fiona N. Newell]

'Jonathan Swift: augmented reality application for Trinity library's long room', *Interactive storytelling, International conference on interactive digital storytelling*, eds Rebecca Rouse, Hartmut Koenitz and Mads Haahr, Dublin, Ireland, Springer International Publishing (2018), 348-351 [Neill O'Dwyer, Jan Ondrej, Rafael Pages, Konstantinos Amplianitis, Aljosa Smolic]

## Recent publications – Research Institutes and Centres

### Library

- Bioletti, Susan*, *Chemical interactions between cultural artefacts and indoor environment*, Leuven, Acco (2018), 246 [Mieke Adriaens, Susie Bioletti, Ira Rabin]
- Eustace-Cook, Jessica*, 'Sexuality and intimacy among people with serious mental illness: a systematic review of qualitative research', *JBIR Database of Systematic Reviews and Implementation Reports*, 17, 1 (2019), 74-125 [E. McCann, G. Donohue, J. de Jager, A. Nugter, J. Stewart, J. Eustace-Cook]
- Fitzgerald, Geraldine*, 'Does assistive technology contribute to social inclusion for people with intellectual disability? A systematic review protocol', *BMJ* (2018), 10.1136/bmjopen-2017-017533 [J. Owuor, F. Larkin, G. Kayabu, G. Fitzgerald, G. Sheaf, J. Dinsmore, R. McConkey, M. Clarke, M. MacLachlan]
- Leveque, Elodie*, 'Libri pilosi: la peau housée sur les reliures médiévales', *Support/Trace*, 17 (2017), 63-71 [Elodie Leveque, Claire Chahine, Sarah Fiddymnt]
- McDonald, Therese*, 'The law collections at the library of Trinity College Dublin', *Legal Information Management*, 18, 2 (2018), 110-115 [Terry McDonald]
- Mockler, David*, 'Physical function performance and recovery of patients undergoing abdominal surgery in relation to postoperative complications - a prospective real-world study', *Mesentery and Peritoneum*, 2, 1 (2018), AB236-AB236 [Mary Flahive, James O'Driscoll, Joanne Dowd (...), David Mockler *et al.*]
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