Recent Publications – Faculty of Science, Technology, Engineering and Mathematics

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

The publications information has been derived from the College's Research Support System. Every effort has been made to ensure that the information is accurate and complete. Please notify the Research Support Systems Administrator (email: rssadmin@tcd.ie) of any errors or omissions which will be corrected in next year's Calendar.

School of Biochemistry and Immunology


'Sestrin2 protects against cell death in response to DNA-damaging drugs through regulation of ROS and mitochondrial function', *FEBS open bio*, Prague, Czech Republic (2018), 10-149-T [A. Budano, A. Evstafieva, A. Dalina, I. Kovaleva, A. Zheltukhin, P. Chumakov, J. Taylor]

'Sestrins are gatekeepers in the way from stress to aging and disease', *Molecular Biology*, 52, 6 (2018), 823-835 [A.A. Dalina, I.E. Kovaleva, A.V. Budanov]

'Sestrins regulate respiration and cell death through interaction with mitochondria', *FEBS Open Bio, 44th FEBS congress*, Krakow, Poland (2019), 144-145 [A. Budanov, A. Dalina, I. Kovaleva, A. Haidurovs, A. Tokarchuk, A. Zheltukhin]


'Sestrin prevents muscle atrophy from disuse and aging by integrating anabolic and catabolic signals', *Nature Communications*, 11, 1 (2020), 189 [J. Segalés, E. Perdiguer, A.L. Serrano (...), A. Budanov et al.]


'Losing sleep over delirium', *Critical Care Medicine*, 46, 6 (2018), 1036-1038 [R.C. Arora, C. Cunningham]
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'Acute transient cognitive dysfunction and acute brain injury induced by systemic inflammation occur by dissociable IL-1-dependent mechanisms', Molecular Psychiatry (2018), 1 [D.T. Skelly, É.W. Griffin, C.L. Murray (...), D.M. Bannerman, C. Cunningham]


'Chronic neurodegeneration induces type I interferon synthesis via STING, shaping microglial phenotype and accelerating disease progression', Glia, 67 (2019), 1254 –1276 [A. Nazmi, R.H. Field, E.W. Griffin (...), A. Dunne C. Cunningham]


Fayne, Darren, 'Single point mutations reveal amino acid residues important for Chromobacterium violaceum transaminase activity in the production of unnatural amino acids', Scientific Reports, 8, 1 (2018), http://hdl.handle.net/2262/90168 [S.A. Almahboub, T. Narancic, D. Fayne, K.E. O'Connor]


Finlay, David, 'Metabolic reprogramming of natural killer cells in obesity limits antitumor responses', Nature Immunology, 19, 12 (2018), 1330-1340 [X. Michelet, L. Dyck, A. Hogan (...), D. Finlay, L. Lynch]


'Competition for nutrients; an emerging role in controlling immune responses', Nature Communications, 10, 1 (2019), 2123 [N. Kedia-Mehta, D.K. Finlay]


'N-myristoylation of AMPK controls T cell inflammatory function', Nature Immunology, 20, 3 (2019), 252-254 [D.K. Finlay]
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‘Natural killer cells integrate signals received from tumour interactions and IL2 to induce robust and prolonged anti-tumour and metabolic responses’, *Immunometabolism*, 2 (2019), e190014 [N. Kedia-Mehta, C. Choi, A. McCrudden, E. Littwitz-Salomon, P.G. Fox, C.M. Gardiner, D.K. Finlay]


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'The developmental shift of NMDA receptor composition proceeds independently of GluN2 subunit-specific GluN2 C-terminal sequences', Cell Reports, 25, 4 (2018), 841-851.e4 [T. Ryan]


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'Chronic neurodegeneration induces type I interferon synthesis via STING, shaping microglial phenotype and accelerating disease progression', Glia, 67 (2019), 1254-1276 [A. Nazmi, R.H. Field, E.W. Griffin (…), A. Dunne, C. Cunningham]

Fletcher, Jean, 'Differential regulation of human Treg and Th17 cells by fatty acid synthesis and glycolysis', Frontiers in Immunology, 10 (2019), 115 [D. Cluxton, A. Petrasca, B. Moran, J.M. Fletcher]


'NK cell metabolism and TGFβ - implications for immunotherapy', Frontiers in Immunology, 10, 2915 (2019), http://hdl.handle.net/2262/91600 [K. Slattery, C.M. Gardiner]

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'NK cell metabolism', *Journal of Leukocyte Biology*, 105, 6 (2019), 1235-1242 [C.M. Gardiner]


'Easy and effective method to generate endotoxin-free chitosan particles for immunotoxicology and immunopharmacology studies', *Journal of Pharmacy and Pharmacology*, 71, 6 (2019), 920-928 [F. Lebre, E.C. Lavelle, O. Borges]


'McLoughlin, Rachel, 'Next-generation anti-*Staphylococcus aureus* vaccines: a potential new therapeutic option for atopic dermatitis?’, *Journal of Allergy and Clinical Immunology*, 143, 1 (2019), 78-81 [J. Clowry, A.D. Irvine, R.M. McLoughlin]


'Would hemodialysis patients benefit from a \textit{Staphylococcus aureus} vaccine?', \textit{Kidney International}, 95, 3 (2019), 518-525 [R. Connolly, M.D. Denton, H. Humphreys, R.M. McLoughlin]


'Helminths products directly modulate T cells that mediate experimental autoimmune encephalomyelitis', \textit{European Journal of Immunology} (2019), http://dx.doi.org/10.1002/eji.201948147 [S.M. Quinn, M. Raverdeau, A.M. McGinley, K.H.G. Mills]

'Immunization with whole cell but not acellular pertussis vaccines primes CD4 T\textsubscript{RM} cells that sustain protective immunity against nasal colonization with \textit{Bordetella pertussis}', \textit{Emerging Microbes and Infections}, 8, 1 (2019), 169-185 [M.M. Wilk, L. Borkner, A. Misiak, L. Curham, A.C. Allen, K.H.G. Mills]


'Improved detection of biomarkers in cervico-vaginal mucus (CVM) from postpartum cattle', \textit{BMC Veterinary Research}, 14, 1 (2018), http://hdl.handle.net/2262/89581 [M. Adnane, P. Kelly, A. Chapwanya, K.G. Meade, C. O'Farrelly]
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'Non-canonical inflammasome-mediated IL-1β production by primary endometrial epithelial and stromal fibroblast cells is NLRP3 and caspase-4 dependent', Frontiers in Immunology, 10, FEB (2019), 1 [P. Kelly, K.G. Meade, C. O'Farrelly]


School of Chemistry


'Perfluorinated phosphine and hybrid P-O ligands for Pd catalysed C-C bond forming reactions in solution and on Teflon supports', RSC Advances, 9, 50 (2019), 28936-28945 [F. Begum, M. Ikram, B. Twamley, R.J. Baker]


'Competitive reaction of neptunium(V) and uranium(VI) in potassium-sodium carbonate-rich aqueous media: speciation study with a focus on high-resolution x-ray spectroscopy', Inorganic Chemistry, 59 (2020), 8-22 [T. Vitova, I. Pidchenko, D. Schild, V. Montoya, D. Fellhauer, X. Gaona, E. Bohnert, J. Rothe, R.J. Baker, H. Geckeis]
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'Switching at the contacts in Ge\(_2\)Sb\(_2\)Te\(_5\) phase-change nanowire devices', *Nanotechnology* 30, 33 (2019), 335706 [S. Alialy, M. Gabriel, F. Davitt, J.D. Holmes, J.J. Boland]


**Connon, Stephen**, 'Enantioselective acyl-transfer catalysis by fluoride ions', *Chemical Communications*, 54, 72 (2018), 10108-10111 [R. Craig, M. Litvajova, S.A. Cronin, S.J. Connon]


The engineering of continuous hydrothermal/solvothermal synthesis of nanomaterials, Supercritical and other high-pressure solvent systems: for extraction, reaction and material processing, eds A.J. Hunt, T.M. Attard (2018), 416-448 [E. Lester, P. Dunne, Y. Chen, A. Al-Atta]

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Florea, Larisa, 'Paper based electronic tongue: a low-cost solution for the distinction of sugar type and apple juice brand', The Analyst, 144, 8 (2019), 2827-2832 [C.M. Daikuzono, C. Delaney, A. Morrin, D. Diamond, L. Florea, O.N. Oliveira]


MDPI Materials, eds M. Garcia-Melchor, M. Bajdich, 1 (2018), 819-1004


'Optical properties, synthesis, and potential applications of Cu-based ternary or quaternary anisotropic quantum dots, polytypic nanocrystals, and core/shell heterostructures', Nanomaterials, 9, 1 (2019), http://hdl.handle.net/2262/89942 [X. Bai, F. Purcell-Milton, Y.K. Gun'ko]


'Author correction: Preparation from a revisited wet chemical route of phase-pure, monocrystalline and SHG-efficient BiFeO3 nanoparticles for harmonic bio-imaging', Scientific Reports, 9, 1 (2019), 15891 [G. Clarke, A. Rogov, S. McCarthy (…), Y. Gun'k'o et al.]


Gunnaugsson, Thorfinnur, 'The 4-pyridonyl group as a multifunctional electron donor in 1,8-naphthalimide-based photoluminescent and mechanically interlocked coordination compounds', Materials Chemistry Frontiers, 2, 7 (2018), 1366-1373 [C.S. Hawes, K. Byrne, W. Schmitt, T. Gunnaugsson]

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'Exploring proximity effects and large depth of field in helium ion beam lithography: large-area dense patterns and tilted surface exposure', Nanotechnology, 29 (2018), 275301 [R. Flatabø, A. Agarwal, R.G. Hobbs, Y. Yang, K.K. Berggren, B. Holst, K.K. Berggren]


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'Development of ordered, porous (sub-25nm dimensions) surface membrane structures using a block copolymer approach', Scientific Reports, 8, 1 (2018), http://dx.doi.org/10.1038/s41598-018-25446-0 [T. Ghoshal, J.D. Holmes, M.A. Morris]

'Spray coating application for the development of nanocoated antimicrobial low-density polyethylene films to increase the shelf life of chicken breast fillets', Food Science and Technology International, 24, 8 (2018), 688-698 [S. Azlin-Hasim, M.C. Cruz-Romero, M.A. Morris, E. Cummins, J.P. Kerry]


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'Migration assessment of silver from nanosilver spray coated low density polyethylene or polyester films into milk', *Food Packaging and Shelf Life*, 15 (2018), 144-150 [J.C. Hannon, J.P. Kerry, M. Cruz-Romero, S. Azlin-Hasim, M. Morris, E. Cummins]


'Collagen scaffolds functionalised with copper-eluting bioactive glass reduce infection and enhance osteogenesis and angiogenesis both in vitro and in vivo', *Biomaterials*, 197 (2019), 405-416 [E.J. Ryan, A.J. Ryan, A. Gonzalez-Vazquez (...), V. Nicolosi et al.]

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'Optical properties, synthesis, and potential applications of Cu-based ternary or quaternary anisotropic quantum dots, polytypic nanocrystals, and core/shell heterostructures', Nanomaterials, 9, 1 (2019), http://hdl.handle.net/2262/89942 [X. Bai, F. Purcell-Milton, Y.K. Gun’ko]


'Planarity or nonplanarity: modulating guanidine derivatives as α₂-adrenoceptors ligands', Journal of Chemical Information and Modeling, 59, 5 (2019), 2479-2486 [C. Trujillo, A. Flood, G. Sanchez-Sanz, B. Twamley, I. Rozas]

'Recent developments in compounds acting in the DNA minor groove', MedChemComm, 10, 1 (2019), 26-40 [A. Rahman, P. O'Sullivan, I. Rozas]


Scanlan, Eoin, 'Carbon nano-onions as non-cytotoxic carriers for cellular uptake of glycopeptides and proteins', Nanomaterials, 9, 8 (2019), http://hdl.handle.net/2262/89226 [M. D'amora, V. Maffei, R. Brescia, D. Barnes, E. Scanlan, S. Giordani]


'The 4-pyridonyl group as a multifunctional electron donor in 1,8-naphthalimide-based photoluminescent and mechanically interlocked coordination compounds', Materials Chemistry Frontiers, 2, 7 (2018), 1366-1373 [C.S. Hawes, K. Byrne, W. Schmitt, T. Gunnlaugsson]


'Highly efficient one-dimensional triplet exciton transport in a palladium-porphyrin-based surface-anchored metal-organic framework', ACS Applied Materials and Interfaces, 11, 17 (2019), 15688-15697 [M. Adams, M. Kozlowska, N. Baroni (...), M.O. Senge et al.]


'Investigating the impact of conformational molecular engineering on the crystal packing of cavity forming porphyrins', Inorganic Chemistry, 58, 23 (2019), 15769-15787 [K.J. Flanagan, B. Twamley, M.O. Senge]


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'Aggregation Induced Emission (AIE) active 4-amino-1,8-naphthalimide-Tröger's base for the selective sensing of chemical explosives in competitive aqueous media', *Chemical Communications*, (2020), 2562-2565 [J.M. Delente, D. Umadevi, S. Shanmugaraju, O. Kotova, G.W. Watson, T.Gunnlaugsson]


'Near-saturated red emitters: four-coordinate copper(i) halide complexes containing 8-(diphenylphosphino)quinoline and 1-(diphenylphosphino)naphthalene ligands', *Dalton Transactions*, 47, 28 (2018), 9294-9302 [L-P. Liu, Q. Li, S-P. Xiang (…), N-Y. Zhu et al.]

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School of Computer Science and Statistics

COMPUTER SCIENCE


'Online evaluations for everyone: Mr. dlib's living lab for scholarly recommendations', 41st European Conference on Information Retrieval (ECIR) (2019), 100-103 [J. Beel, A. Collins, O. Kopp, L. Dietz, P. Knoth]

'Augmenting the DonorsChoose.org corpus for meta-learning', 1st interdisciplinary workshop on algorithm selection and meta-learning in information retrieval (AMIR) (2019), 32-38 [E. Gordian, A. Collins, A. Aizawa, J. Beel]


'Proposal for the 1st interdisciplinary workshop on algorithm selection and meta-learning in information retrieval (AMIR)', 41st European Conference on Information Retrieval (ECIR) (2019), 205-212 [J. Beel, L. Kotthoff]


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Butterfield, Andrew, 'The inner and outer algebras of unified concurrency', Lecture notes in computer science (including subseries lecture notes in artificial intelligence and lecture notes in bioinformatics), 11885 LNCS, (2019), 157-175 [A. Butterfield]

'Circus2CSP: A tool for model-checking circus using FDR', Lecture notes in computer science (including subseries lecture notes in artificial intelligence and lecture notes in bioinformatics), 11800 LNCS, (2019), 235-242 [A.O. Gomes, A. Butterfield]

'Towards a model-checker for circus', Lecture notes in computer science (including subseries lecture notes in artificial intelligence and lecture notes in bioinformatics), 11800 LNCS, (2019), 217-234 [Gomes, A.O. and Butterfield, A.]


'Acoustic distinctions between speech and singing: is singing acoustically more stable than speech?', Speech prosody, Poznan, Poland (2018), 542-546 [B.R. de Medeiros, J.P. Cabral]


Clarke, Siobhan, 'Using social dependence to enable neighbourly behaviour in open multi-agent systems', ACM Transactions on Intelligent Systems and Technology, 10, 3 (2019), 3319402 [F. Golpayegani, I. Dasparic, S. Clarke]


'Smart cities with deep edges', CML PKDD 2018: ECML PKDD 2018 workshops, Joint European conference on machine learning and knowledge discovery in databases (2019), 53-64 [G. White, S. Clarke]


Conlan, Owen, 'Scrubtable and persuasive push-notifications', International Conference on persuasive technology PERSUASIVE 2019: development of persuasive and behavior change support systems (2019), 67-73 [K. Fraser, B. Yousuf, O. Conlan]

'Motivating students to enhance their knowledge levels through personalized and scrubtable visual narratives', LNCS, European conference on technology enhanced learning (2018), 136-150 [B. Yousuf, A. Staikopoulos, O. Conlan]

'An approach for exploring a video via multimodal feature extraction and user interactions', Journal on Multimodal User Interfaces, 12, 4 (2018), 285-296 [F.A. Salim, F. Haider, O. Conlan, S. Luz]


'Modelling large scale datasets using partitioning-based PCA', IEEE international conference on image processing, Taipei, Taiwan (2019), 2646-2650 [S. Alakkari, J. Dingliana]


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'Using social dependence to enable neighbourly behaviour in open multi-agent systems', _ACM transactions on intelligent systems and technology_, 10, 3 (2019), 3319402 [F. Golpayegani, I. Dusparic, S. Clarke]


_Fernando, Rafael_, 'Prior probabilities of Allen interval relations over finite orders', _Proceedings of the 11th international conference on agents and artificial intelligence - Volume 2: NLPinAI_, Prague, Czech Republic (2019), 952-961 [T. Fernando, C. Vogel]


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'Identifying generative mechanisms in a mobile health (mHealth) project in Sierra Leone: a critical realist framework for retroduction', *IFIP Advances in Information and Communication Technology*, 552 (2019), 39-48 [P.J. Wall, D. Lewis, L. Hederman]


'Towards resource-efficient wireless edge analytics for mobile augmented reality applications', *Proc international symposium on wireless communication systems* (2018), http://dx.doi.org/10.1109/iswcs.2018.8491206 [L.E. Chatzieleftheriou, G. Iosifidis, I. Koutsopoulos, D. Leith]

'Joint optimization of edge computing architectures and radio access networks', *IEEE Journal on Selected Areas in Communications*, 36, 11 (2018), 2433-2443 [A. Garcia-Saavedra, G. Iosifidis, X. Costa-Perez, D.J. Leith]


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'SDN-enabled tactical ad hoc networks: extending programmable control to the edge', *IEEE Communications Magazine*, 56, 7 (2018), 132-138 [K. Poularakis, G. Iosifidis, L. Tassiulas]

'Guest editorial caching for communication systems and networks - Part II', *IEEE Journal on Selected Areas in Communications*, 36, 8 (2018), 1663-1665 [G.S. Paschos, G. Iosifidis, M. Tao, D. Towsley, G. Caire]

'The role of caching in future communication systems and networks', *IEEE Journal on Selected Areas in Communications*, 36, 6 (2018), 1111-1125 [G.S. Paschos, G. Iosifidis, M. Tao, D. Towsley, G. Caire]


Koutsombogera, Maria, 'Observing collaboration in small-group interaction', *Multimodal Technologies and Interaction*, 3, 3 (2019), 45 [M. Koutsombogera, C. Vogel]


'Measuring surgical knot tying with 3D vision and VR gloves', *21st Irish machine vision and image processing conference*, Technical University Dublin (2019), 155-164 [J. Bhattacharya, P. Ridgway, G. Lacey]


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'Identifying generative mechanisms in a mobile health (mHealth) project in Sierra Leone: a critical realist framework for retroduction', *IFIP Advances in Information and Communication Technology*, 552 (2019), 39-48 [P.J. Wall, D. Lewis, L. Hederman]


**Manzke, Michael**, 'Using a depth heuristic for light field volume rendering', *14th international joint conference on computer vision, imaging and computer graphics theory and applications (VISIGRAPP)*, Prague, Czech Republic (2019), 134-144 [S. Martin, S. Bruton, D. Ganter, M. Manzke]

'Synthesising light field volumetric visualizations in real-time using a compressed volume representation', *14th international joint conference on computer vision, imaging and computer graphics theory and applications (VISIGRAPP)*, Prague, Czech Republic (2019), 96-105 [S. Bruton, D. Ganter, M. Manzke]


**McGoldrick, Ciaran**, 'Additively homomorphic IBE from higher residuosity', *Lecture notes in computer science (including subseries lecture notes in artificial intelligence and lecture notes in bioinformatics)*, 11442 LNCS (2019), 496-515 [M. Clear, C. McGoldrick]


‘Foreword to the special section on motion in games’, Computers and Graphics (Pergamon), 78 (2019), A5 [C. O’Sullivan, J. Pettre]


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'3-stage hierarchical quality of service for multi-tenant passive optical network', *Optical Networks Design and Modeling (ONDM) (2019)*, 6 [F. Slyne, B. Cornaglia, M. Boselli, M. Ruffini]


'Active wavelength load as a feature for QoT estimation based on support vector machine', *IEEE International Conference on Communications (2019)*, 1-6 [A.A. Diaz-Montiel, S. Aladini, C. Tremblay, M. Ruffini]

'Coordinated fibre and wireless spectrum allocation in SDN-controlled wireless-optical-cloud converged architecture', *European Conference on Optical Communications (2019)*, 1-3 [F. Slyne, R.S. Guimaraes, Y. Zhang, M. Martinello, R. Nejabati, M. Ruffini, L.A. DaSilva]

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'A distributed bilateral resource market mechanism for future telecommunications networks', IEEE Globecom (2019), 1-6 [N. Afraz, M. Ruffini]


'PON virtualisation with EAST-WEST communications for low-latency converged Multi-access Edge Computing (MEC)', Optical Fibre Communications (OFC) (2020), 1-3 [S. Das, M. Ruffini]


'Analysing the impact of cross-content pairs on pairwise comparison scaling', 2019 11th International Conference on Quality of Multimedia Experience, QoMEX 2019 (2019), 8743295 [E. Zerman, G. Valenzise, A. Smolic]


'Study on the perception of sharpness mismatch in stereoscopic video', 2019 11th International Conference on Quality of Multimedia Experience, QoMEX 2019 (2019), 8743217 [S. Croci, S. Knorr, A. Smolic]


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'Super-resolution of omnidirectional images using adversarial learning', *21st IEEE international workshop on multimedia signal processing, MMSP 2019*, Institute of Electrical and Electronics Engineers Inc. (2019), http://dx.doi.org/10.1109/MMSP.2019.8901764 [C. Ozcinar, A. Rana, A. Smolic]


'Windfall scale, wealth consciousness and social proximity as influences on ultimatum game decisions', *2018 9th IEEE international conference on cognitive infocommunications (CogInfoCom)*, Budapest, Hungary, IEEE (2018), 179 - 184 [C. Vogel, E. Hayes, D. Calawen, A. Esposito]


'Observing collaboration in small-group interaction', *Multimodal Technologies and Interaction*, 3, 3 (2019), 45 [M. Koutsombogera, C. Vogel]


'Age and culture effects on the ability to decode affect bursts', *Quantifying and processing biomedical and behavioral signals. WIRN 2017*, eds A. Esposito, M. Faundez-Zanuy, F. Morabito, E. Pasero, Cham, Springer (2018), 23-34 [A. Esposito, A.M. Esposito, F. Scibelli, N.M. Maldonato, C. Vogel]

'A paradigm for democratizing artificial intelligence research', *Intelligent Systems Reference Library*, 159 (2019), 137-166 [E. Moreau, C. Vogel, M. Barry]


'Using character N-grams to explore diachronic change in medieval English', *Folia Linguistica Historica*, 40, 2 (2019), 249-300 [K. Buckley, C. Vogel]

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'Distributed intelligent client-centric personalisation', *LNCS, International Conference on Web Engineering (2019)*, 1 [R.S. Clarke, V. Wade]


Zerman, Emin, 'Subjective and objective quality assessment for volumetric video compression', *Electronic Imaging* (2019), 1 [E. Zerman, P. Gao, C. Ozcinar, A. Smolic]


Research students


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STATISTICS

Dahyot, Rozenn, 'Object geolocation from crowdsourced street level imagery', Lecture Notes in Computer Science (including subseries lecture notes in artificial intelligence and lecture notes in bioinformatics), 11329 (2019), 79-83 [V.A. Krylov, R. Dahyot]


'L_2 divergence for robust colour transfer', Computer Vision and Image Understanding, 181 (2019), 39-49 [M. Grogan, R. Dahyot]

Irish machine vision and image processing conference proceedings 2018, Ulster University, Northern Ireland, Irish pattern recognition and classification society, eds B.W Scotney, (2018), 1-230


'Sequential Bayesian inference for static parameters in dynamic state space models', Computational Statistics and Data Analysis, 127 (2018), 187-203 [A. Bhattacharya, S.P. Wilson]


Alam, Md, 'Downscaling national road transport emission to street level: a case study in Dublin, Ireland', Journal of Cleaner Production, 183 (2018), 797-809 [M.S. Alam, B. Hyde, P. Duffy, A. McNabola]


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'Modelling the potential benefits increased active travel', *Transport Policy*, 79 (2019), 82-92 [P. Carroll, B. Caulfield, A. Ahern]


'Measuring access to urban centres in rural northeast Brazil: a spatial accessibility poverty index', *Journal of Transport Geography* (2019), [R. Benevenuto, B. Caulfield]


**Fitzgerald, Breiffni**, 'Vibration control of spar-type floating offshore wind turbine towers using a tuned mass-damper-inerter', *Structural Control and Health Monitoring* (2019), http://hdl.handle.net/2262/90386 [B. Fitzgerald]


'Individual blade pitch control of floating offshore wind turbines for load mitigation and power regulation', *IEEE transactions on control systems technology* (2020), http://hdl.handle.net/2262/91667 [B. Fitzgerald]


'Innovating for low-carbon energy through hydropower: enabling a conservation charity's transition to a low-carbon community', *Creativity and Innovation Management*, 27 (2018), 375-386 [J. Gallagher, P. Coughlan, A.P. Williams, A. McNabola]


'Air pollution, the nexus between air pollution, green infrastructure and human health', *Environmental International*, 133 (A) (2019), 105181 [P. Kumar, A. Druckman, J. Gallagher (…), S. de Lusignan, L. Morawska]

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'Development of a Fleet Emissions Control (FEC) framework for passenger cars', *Journal of Cleaner Production*, 226 (2019), 482-492 [M.S. Alam, A. McNabola]


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'Maximising hydropower generation in gravity water distribution networks: determining of the optimal location and number of pump as turbines', Journal of Water Resources Planning and Management, 146, 1 (2020), 1-12 [I. Fernandez Garcia, A. McNabola]


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'Determination of soil permeability coefficient following an updated grading entropy approach', Geotechnical Research, 7 (2020), 10 [B.C. O'Kelly, M. Nogal]

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