

# LAW CRIMINAL JUSTICE AND COMPUTING RESEARCH AND ENTERPRISE NEWSLETTER

AUTUMN 2018 EDITION

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## News/

Dr Abhaya Induruwa, Director of the Cyber Innovation Hub served the United Nations Office for Drugs and Cybercrime (UNODC) as a Member of the Expert Group advising on University modules in Cybercrime under their Education for Justice (E4J) project. The Expert Group Meeting was held in Vienna in September 2018. The next meeting is planned for November 2018.

### **Experience supervisor approval:**

Congratulations to Dr Martin O'Neill who has been approved as an 'experienced' research degree supervisor in policing. This will mean that Martin can now act as an experienced supervisor for the MSc by Research and PhD in policing. Martin has a growing publication record with his recent publication (among others) of this book 'Key Challenges in Criminal Investigation' this year through Policy Press and has recently been a PhD external examiner at University of Central Lancashire (UCLAN).

### **Recent completions MSc by Research in the subject area of Policing include:**

*Edward Cudmore* 'An explorative case study of the coping mechanisms used by the Metropolitan Police Services Territorial Support Group' (Supervisor: Dr Stephen Tong/Dr Emma Williams)

*Jane Hurn* 'An examination of the effects of austerity and additional changes between 2010-2015 on detectives, their role and the CID investigation process.' (Supervisor: Dr Stephen Tong/Dr Emma Williams).

*Matt Hollands* Let's not lose Justice in translation: An exploration of police officer identification of interpreter need amongst limited and non-English speaking suspects brought into police custody. (Supervisors Emma Williams and Steve Tong)

### **Recent completions PhD in Criminal Justice include:**

*David Lydon* 'Police Legitimacy and the Policing of Protest: Identifying contextual influences associated with the construction and shaping of protester perceptions of police legitimacy and attitudes to compliance and cooperation beyond the limits of procedural justice and elaborated social identity approaches.' (Supervisor Dr Dominic Wood/Prof Robin Bryant)

## Conferences and event reports/

### Penal Heritage Briefing Paper Launch



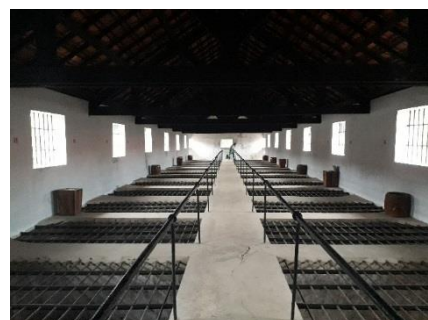
Earlier this year **Maryse Tennant** co-authored 'Penal Heritage: Approaches to Interpretation', a briefing paper for the heritage sector advising about ethical interpretation at former prison sites. This was part of an AHRC/Labex funded project 'Sites of Suffering, Sites of Memory' led by Professor Charles Forsdick at the University of Liverpool. The briefing paper draws on Maryse's work on Canterbury prison heritage as a good practice example and was launched at the Penal and Forensic Heritage event held at the University of Liverpool on 17<sup>th</sup> October 2018.

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### Con Son Trip



At the beginning of September **Maryse Tennant** participated in a five day field trip to prison sites on Con Son island, Vietnam along with a team of inter-disciplinary researchers from Nottingham Trent University and the University of Liverpool. There are a number of prison sites on the island, which were used by both the French and the South Vietnamese/American forces during the Vietnam war, and these include the infamous 'Tiger Cages'. As part of this she spoke at a workshop held at Ton Duc Thang University in Ho Chi Minh City about CCCU's redevelopment of the Canterbury prison site and her research on that institution. You can read a more detailed report of the workshop here: <http://ssh.tdtu.edu.vn/en/tin-tuc/2018/prison-heritage-conson-and-beyond>. The team will be holding an event based on the trip on the 24<sup>th</sup> November 2018 in Nottingham which will include an exhibition of photographs of the site taken by Charles Fox, Nottingham Trent University.



## Computer Science and Smart Currencies

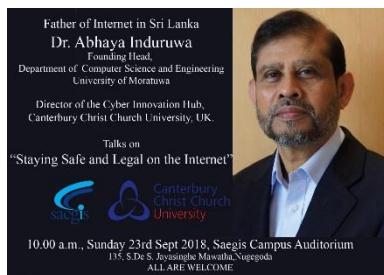


Dr Abhaya Induruwa, Director of the Cyber Innovation Hub, was invited to talk at the 11<sup>th</sup> International Research Conference held at General Sir John Kotelawala Defence University (KDU), Ratmalana, Sri Lanka on 14<sup>th</sup> September 2018. Dr Induruwa delivered the plenary speech entitled “**Computer Science and Smart Currencies for the Modern World**” in the session on *Smart Solutions for Global Challenges*. In his speech Dr Induruwa outlined the

benefits of smart currencies (AKA crypto or virtual currencies) and discussed how computer science concepts such as cryptology, databases and data structures have contributed to the development of Blockchain Technology on which Cryptocurrencies are built. He then went on to discuss the challenges brought about by the criminal use of virtual currencies in dark web environments.



## How to Stay Safe and Legal On-line



During his recent visit to Saegis Campus, Sri Lanka to deliver staff training and induction programmes Dr Abhaya Induruwa, Director of Cyber Innovation Hub, gave a talk to their staff and students on “How to stay safe and legal on the Internet”. In his presentation Dr Induruwa spoke about how criminals carefully and patiently select their prey before launching attacks, and gave examples of recent spam, phishing and spear phishing attack attempts. He then went onto discuss the

emerging threats, especially due to the large scale proliferation of Internet of Things (IoT), now running into tens of billions of ‘things’. Using recent hacks on Internet connected devices such as baby monitors, CCTV cameras, personal fitness monitors, heating and cooling systems as case studies, he explained how hackers can affect normal life and harm people. In particular he warned about the dangers brought about by lack of security in Internet connected soft cuddly toys and how unsuspecting parents and their children can be brought to harm. As part of the University’s commitment to internationalisation the University recently entered into a collaborative partnership with Saegis Campus to offer Canterbury Christ Church University degrees in Sri Lanka. This partnership agreement supports the development, delivery and quality assurance of a range of undergraduate and postgraduate degrees. Initially BSc (Hons) Computing (Top-up), BSc (Hons) Business Management (Top-up), and MBA degrees will be offered. Further development of the portfolio is planned for the future.



On 16 October, **Dr Hannan Azhar**, Senior Lecturer of Computing at CCCU, was invited to the House of Commons, UK Parliament for a morning presentation and discussion on clinical research using innovative technology for improved health and wellbeing for people with brain injury. The meeting was chaired by Dr Mo Sakel, director of neuro-rehab, East Kent Hospital at Canterbury and sponsored and co-chaired by Canterbury MP Rossie Duffield and attended by other distinguished leaders including MP Chris Bryant, clinicians and academics working for rehabilitation across Kent and Medway. Neuro-rehab at the East Kent Hospital have been collaborating with Dr Hannan in several internship projects over past years, which aims to develop BCI assistive system to rehabilitate brain injured patients to increase independence and quality of life. Outcome of the most recent project was presented by Mr Sam Herring, a student intern, at the 9th Brain Injury Conference held 12 October at Kent and Canterbury Hospital. The research was the result of the study on EEG Data filtration methods and feature aggregation from these data sets. The goal was to achieve better success in identification of the visually evoked brain signals for a speller application. Notable increase in accuracy was achieved while using machine learning approaches in modelling classifier systems to detect visually evoked brain signals.



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**Dr Hannan Azhar**, Senior Lecturer at Computing, was invited to the Drone Berlin trade show held in Berlin on 24-25 September 2018, to talk about the challenges and techniques on Drone forensics. The event exclusively focused on drone technology and innovation and was attended by both manufacturers and users of drones including industry leaders, decision makers and government agencies. Dr Hannan, in his talk, indicated the rise in drone related crimes in recent years and discussed techniques in extraction and identification of important artefacts from the recorded flight data of drones, as well as associated mobile devices using open sources tools and some basic scripts. More Details of the techniques can be found in the following published article in the Journal of Digital Forensics, Security and Law.

Azhar, M,A.H.B; Barton, T.; and Islam, T. (2018) "Drone Forensic Analysis Using Open Source Tools," Journal of Digital Forensics, Security and Law: Vol. 13 : No. 1 , Article 6. Available at: <https://commons.erau.edu/jdfsl/vol13/iss1/6>

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**Mr. Fida Hussain** attended the IEEE ICNC-FSKD 2018 conference held from 28-30 July 2018 in Huangshan, China. He presented a paper Integrated Privacy Preserving Framework for Smart Home. The conference was attended by a number of academics and practitioners around the world. Fida will also present A Smart Home Testbed for Security Research and Education on 31st Oct the University Internship Programme Day.



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**Dr Man Qi** has been invited as an Editor Board Member, SCIREA Journal of Computer since Aug 2018. She reviewed papers for Journal of Network and Systems Management, IEEE Transactions on Industrial Informatics, Future Generation Computer Systems during the summer. She is

helping Cyber Innovation Hub director Dr Abhaya Induruwa to organise a Workshop on Smart City Cyber Security.

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Law student **Hassan Idrees** represented CCCU in the "9th Academic International Conference on Interdisciplinary Legal Studies" which was held at Oxford last month.

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**Ben Waters** gave a paper at the Society of Legal Scholars Conference 'Law in Troubled Times' at Queen Mary University, 4<sup>th</sup> to 7<sup>th</sup> September 2018, a paper entitled *Alternative Dispute Resolution and Civil Justice: A Relationship Resolved?*

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**Dr Emma Williams** attended the European Society of Criminology Conference in Sarajevo at the end of August to deliver a paper on Police Professionalism with Professor Mike Rowe from Northampton University. The conference was attended by a number of academics and practitioners across Europe.

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**Lynne Owen, Director General from the National Crime Agency** received an Honorary Doctorate at Canterbury Cathedral on September 11th. Dr Emma Williams delivered the oration at the graduation ceremony and we are all honoured to have Lynne attached to the university through this very well deserved award.



On October 18th **Dr Emma Williams** presented a paper with Dr Ian Hesketh from the College of Policing on authentic leadership, change and well being in the police. The event was attended by over 500 officers, staff and volunteers and included the Chief Constable and our very own Graham Hooper. The Kent inclusion and diversity day was organised by ACC Jo Shiner and included presentations from Emma Cobb at Deloitte and Laughology, who did a fascinating paper (with humour) on unconscious bias. An article was published in Policing

Insight on the back of the event and feedback from attendees has been very positive. Article here <https://policinginsight.com/opinion/new-notions-of-diversity-internal-bias-and-the-role-of-leaders/>

## Events/

### CCPR lecture series 18-19:

“Policing, Prisons and the Changing Face of Organised Crime: Emerging Lessons, Future Directions” James Treadwell  
9 November, 5.30 – 7pm, Pg09

“Procedural Justice and Interrupters in Custody” Matt Hollands  
27 November, 5.30 – 7pm, Southbank University.

“Collaborative Leadership in the Police: Challenges and Opportunities” Claire Davis  
18 January, 5.30 – 7pm, Pg09

“Changing Landscapes, Challenging Identities - Policing in England and Wales” Sarah Charman  
8 March, 5.30 – 7pm, Pg09

### CCPR round table and information session

22 November 2018, 6-8pm, Colliers Wood  
Book via [www.canterbury.ac.uk/ccpr](http://www.canterbury.ac.uk/ccpr)

### CCPR round table: Stalking

6 February 2019, 5.30, Pg09  
Confirmed speaker: Dr Adrian Scott, Goldsmiths University

### CCPR annual conference ‘Austerity and Ethics: A paradox for professionalism’

19-20 June 2019, AH3.31 Augustine House  
Booking opens soon.

For further details about any of the CCPR events email [ccpr@canterbury.ac.uk](mailto:ccpr@canterbury.ac.uk)

### 2<sup>nd</sup> Annual Cyber (Security and Forensics) Conference

11 January 2019, Of32. For further information email [abhaya.induruwa@canterbury.ac.uk](mailto:abhaya.induruwa@canterbury.ac.uk)

## Publications/

Rich Honess has had two articles published on the Policing Insight website:

<https://policinginsight.com/opinion/continuing-professional-development-what-do-officers-want/>

<https://policinginsight.com/opinion/i-get-asked-questions-a-view-on-degree-entry-from-a-former-frontline-officer/>

Bryant, R. and Arditti, R. (2018) 'A wicked problem'? risk assessment and decision-making when licensing possession and use of firearms in Greater London. *The Police Journal*.

Bryant, R. (2018) The matrix reloaded? why we should improve the MPS 'gang violence matrix', not dismantle it. *Police Professional*.

Heaton, R, Bryant, R & Tong, S (2018) 'Operational Risk, Omissions and Liability in Policing', *The Police Journal: Theory, Practice and Principles*.

O'Neill, M (2018) The art and science of investigation. In Milne, B, & Griffiths, A. (eds). *Psychology of Criminal Investigation: Theory into Practice*. Routledge.

O'Neill, M. (2018) *Key challenges in criminal investigation*. Bristol: Policy Press.

O'Neill, M. and Jones, D. (2018) Evidence-based police training: the bedrock of effective criminal investigation? In: Milne, R. and Griffiths, A., eds. *The psychology of criminal investigation: from theory to practice*. Routledge.

Shipman, S, Waters, B, Wood, W QC, Brown, H (eds) (2018) *Brown and Marriott's ADR: Principles and Practice*, 4<sup>th</sup> Edition, London: Sweet & Maxwell

Spalding, A (2018) 'Medical Justice v Secretary of State for the Home Department', *Journal of Immigration, Asylum and Nationality Law* 50 32(1).

Waters B, D, The Solicitors Qualification Examination: something for all? Some challenges facing law schools in England and Wales *The Law Teacher*, 52.4 (2018).

Williams, E. & Cockcroft, T (2018) 'Knowledge wars: professionalisation, organisational justice and competing knowledge paradigms in British Policing'. In: Huey, L. and Mitchell, R., eds. *Evidence-Based Policing: An Introduction*. Policy Press.

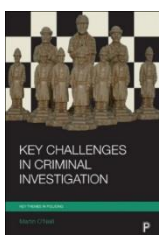
Williams, E. (2018) Patient perspectives of being detained under section 136 of the Mental Health Act: findings from a qualitative study in London. *Medicine Science and Law*.

Williams, E & Hesketh, I (2018) 'Twitter, A New Tardis for Policing?' In: Huey, L. and Mitchell, R., eds. *Evidence-Based Policing: An Introduction*. Policy Press.

Read more at <https://www.canterbury.ac.uk/social-and-applied-sciences/law-criminal-justice-and-computing/canterbury-centre-for-police-research/publications.aspx#svrr75cvf0ilmpY7.99>

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## Publications news/



**Dr Martin O'Neill** has published his first single-authored book as part of the *Policy Press Key Themes in Policing* series. The book provides a comprehensive overview and critical analysis of the development and practice of criminal investigation. It examines decision-making within criminal investigations, from volume crime through to major and serious crime investigations and links investigative influences on policing with the evidence-based agenda. Martin has received some excellent reviews for his book, including:

"Investigation is no longer restricted to police officers. This book transcends police investigation linking practice to theory. I would recommend to all who have an investigative duty" Iain Stainton, University of Cumbria

"Drawing on a wealth of existing research and personal experience, Dr O'Neill provides a valuable insight into the workings and challenges of contemporary investigative practice. A must-read for police investigators and students of policing." Matthew Bacon, University of Sheffield

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The 4<sup>th</sup> Edition of *ADR Principles and Practice* by *Brown & Marriott* is due to be published on 31<sup>st</sup> August 2018. Ben Waters is the lead author and editor of a writing/editorial team of 4, including Henry Brown the original co-author of the text. The 4<sup>th</sup> edition is aimed at academia and particularly law schools who will be teaching a curriculum with the new Solicitors Training Regulations in mind. Alternative Dispute Resolution (ADR) is increasingly integrated into legal education and training in the UK and many other countries. This edition attempts to produce a more rigorous academic approach to the way ADR is presented, making it useful to academic institutions while at the same time maintaining a practical and pragmatic approach valuable to practitioners. Important changes to solicitors' education and training are about to occur with the introduction of the Solicitors Qualification Examination.



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**Prof Robin Bryant**, together with Dr Roger Arditti from the MPS have published a second article as a result of research conducted into firearms licencing. Entitled 'A wicked problem? Risk assessment and decision-making when licensing possession and use of firearms in Greater London'. It was published in the *Police Journal: Theory, Practice and Principles* in September 2018 (<https://doi.org/10.1177/0032258X18797992>). In June Robin and Roger also published an article in *Police professional* concerning the controversial MPS 'gangs database' ('The Matrix Reloaded? Why we should improve the MPS 'Gang Violence Matrix', not dismantle it'). Robin has also contributed a chapter on 'Innate Reasoning and Critical Incident Decision-Making' in the book 'Decision Making in Police Enquiries and Critical Incidents' which will be published by Palgrave MacMillan in February 2019.

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## Resources/

### CCCU Research Training & Development

Book training events for postgraduate students and staff via the Eventbrite

page: <https://www.eventbrite.co.uk/o/cccu-research-training-amp-development-14785203989>.

Follow CCCU Research Training @CCCUREsearch and keep up to date on their facebook page:

<https://en-gb.facebook.com/CCCUREsearch/>

**Tools to track impact workshop** AKA *Social media analytics*, Claire Choong, Learning & Research Librarian - 3<sup>rd</sup> December 2-3pm EF01.

LCJC research leads:

Law – Chrispas Nyombi

Criminal Justice – Maryse Tennant

Computing – Man Qi

Policing – Katarina Mozova

Research and Enterprise Integrity and Development Office (formerly RED)

For bidding enquiries contact [RIFU@canterbury.ac.uk](mailto:RIFU@canterbury.ac.uk), for research policy or staff development enquiries relating to research email [REIDO@canterbury.ac.uk](mailto:REIDO@canterbury.ac.uk)

Please send any items for inclusion in the newsletter to [hannah.bygraves@canterbury.ac.uk](mailto:hannah.bygraves@canterbury.ac.uk)