

# BMVA News

The Newsletter of the British Machine Vision Association and  
Society for Pattern Recognition

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**Editor:** Professor Roy Davies  
Department of Physics  
Royal Holloway, University of London  
Egham, Surrey, TW20 0EX  
Tel: +44(0)1784 435064  
Fax: +44(0)1784 472794  
email: e.r.davies@rhul.ac.uk



<http://www.bmva.org/>

**BMVA** News<sup>1</sup> is published every three months. Contributions on any activity related to machine vision or pattern recognition are eagerly sought. These could include reports on technical activities such as conferences, workshops or other meetings. Items of timely or topical interest are also particularly welcome; these might include details of funding initiatives, programmatic reports from ongoing projects and standards activities. Items for the next edition should reach the Editor by 10 March 2013.

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## Editorial: *Are we using Nonsense Measures to Assess Achievement?*

It never ceases to amaze me how much today's Computer Vision workers are able to achieve. When I came on the scene in the 1970s, far less was known and it was easy to waste time trying out ideas that were in retrospect bound to come to nothing. I remember spending some months developing edge-linking algorithms, eventually to realise that it was not my programming that was holding me back but a fundamental principle: what is there to prevent edge linking from leading to fictional object shapes? But today's workers seem not to waste time in this way. In fact, the path seems all too clear for them and their level of achievement is correspondingly high. This is reflected by the number and quality of the papers they produce and the numerical values of their h-indices. And while it is certainly true that any individual's h-index can only increase over time, today's young workers seem to have greater h-indices than did the young workers of yesteryear, who are naturally now older.

One could wonder whether this is because of the Newton effect: "If I have seen further it is by standing on the shoulders of giants" (Isaac Newton, 1676). Thus it is natural that as a subject progresses from a diverging phase (when little is known) to a converging phase (when much of the important ground work has been done), things will get easier and progress will be much more rapid, without the wasted efforts I referred to above. However, there is a problem with this interpretation: as time goes on, the simpler things will have been done and the work will become more complex. In fact, as only the more difficult problems will remain, it will take many brains to crack them. This does seem to have been happening, perhaps without our

<sup>1</sup>The British Machine Vision Association and Society for Pattern Recognition is a Company limited by guarantee, No. 2543446, registered in England and Wales. Registered Office: Granta Lodge, 71 Graham Road, Malvern, WR14 2JS. The Association is a non-profit-making body and is registered as charity No. 1002307.

realising it. To crack such problems, it requires *teams* of workers, each one working on his speciality, and at that stage the greatest difficulties will be those of communication between players and coordination of effort. Interestingly, as teams become larger, papers tend to have more authors, and thus individual authors publish more papers. Hence it is no wonder that h-indices become inflated.

At this stage a thought experiment will be in order. Two workers with equal h-indices work on their own and suddenly realise that if they each include the other worker on their papers, they will each double their output. Maybe this seems like cheating. However, if they merely team up and each does half the work they can ‘legitimately’ double their output. This means that the numbers of papers and the h-index are both subject to a mathematical nonsense as measures of worth. The way around this is simply to normalise the paper count by dividing by the number of authors. Then the mathematical discontinuities will no longer occur. Quite apart from the difficulty of getting agreement over this alternative approach to worker assessment, there is another consideration: referring back to my idea about teamwork being needed for tackling complex problems, there is a gain to be made *even* with normalised paper counts and normalised h-indices (the latter are called ‘hI,norms’ in Harzing’s Publish or Perish software). For difficult tasks, workers working alone will not be able to make the grade, whereas teams in which each worker works only on his speciality will gain substantively and will manage to be more creative and more productive – and this will *validly* be reflected by increased paper and h-index (normalised) counts.

Looking at my original scenario in this light, it is an unhappy state of affairs if h-indices are becoming inflated over time, without any increase in intelligence or individual capability of the workers. But if we instead look at the normalised h-indices, we should get a much more balanced view of the situation, and should see whether the average worker really is becoming more productive over time. Then it will be a question of why, and whether this really is because more difficult tasks are being tackled and solved. Overall, these thoughts indicate that there is a mathematical inconsistency *and in fact a total nonsense* in using h-indices to measure capabilities of individuals. One must therefore wonder whether any bodies such as the IAPR which use this measure should be warned about the problem. Of course, such bodies always respond that they don’t *rely* on simple numerical measures such as this, but instead only look at the whole person. I wish ...

Professor Roy Davies  
Editor, BMVA News  
email: e.r.davies@rhul.ac.uk

## Call for Nominations for the Sullivan Thesis Prize

The BMVA annually awards a Best Thesis prize (to commemorate the contribution made by the late Professor Geoff Sullivan) for the best doctoral thesis submitted to a UK University, in the field of computer or natural vision. Recommendations for the prize are considered by a selection panel appointed annually by the BMVA Executive Committee, and the prize is presented at the British Machine Vision Conference, held annually during September.

The BMVA Executive Committee now seeks nominations for the Sullivan Prize for theses examined during the calendar year 2013. Please send any nominations to Dr Neil Thacker (neil.a.thacker@manchester.ac.uk) by 1 March 2013. Nominated theses should be made publically available through the BMVA thesis archive prior to nomination.

For further information, see:

<http://www.bmva.org/sullivan>.

Dr Adrian Clark  
BMVA Chair  
email: chair@bmva.org

## Travel Bursaries for International Conferences

In order to encourage UK postgraduate students to present work at international conferences, the BMVA issues bursaries to help cover the travel and conference costs. A number of such bursaries, of up to £750 each, are issued annually. In return, the recipient is expected to write a report on the conference for inclusion in the newsletter, or to do equivalent work for the BMVA website as agreed with the bursaries officer.

To be eligible, you must be: (1) a student at a UK university; (2) a BMVA member; (3) presenting work at a major conference within the BMVA’s remit.

For further details and an application form, see the BMVA website at: <http://www.bmva.org/w/bursaries>

Dr Lourdes Agapito  
University College London  
email: l.agapito@cs.ucl.ac.uk

## From the Chair, Adrian F. Clark



I took up the role of Chair of the BMVA in September this year; but because of the timings involved in the production of *BMVA News*, this is the first opportunity I have had to introduce myself. I have been involved with the BMVA for a long time: I was Secretary in its early days, when Bernard Buxton was Chair, and subsequently managed the BMVA's website for about a decade. People might also have come across my name as the moderator of the *Pixel* mailing list around the same time. For the past two or three years, I have looked after the awarding of BMVA travel bursaries to needy students.

For my first job as Chair, I would like to thank Andrew Fitzgibbon for all the work he did as my predecessor. His tenure saw the BMVC become the premier national vision conference, ranking around fifth in the virtual league table of international vision conferences. Although it may seem odd that a national vision conference should have such a high international standing, this is vitally important to the BMVA as it is the profit from the annual conference that pays for all our other activities. My aim is to avoid undoing all the hard work that has gone into BMVC in recent years while encouraging a few initiatives that should help the vision research and development community in the UK. To that end, I am always open to suggestions: if you have an idea that you think the BMVA really needs to become involved in, do contact me. I do not promise we will take up your idea but it will be considered and discussed.

My job as Chair is made much easier by the efforts of all those who work on the BMVA's executive committee (the ExCo). Key to this are Neil Thacker as Secretary and Toby Breckon as Treasurer. Both of them have done a great deal of work behind the scenes in the last couple of years to manage the legal and financial aspects of the BMVA, and much of this is invisible to

everyone but those on the ExCo. (I shall similarly embarrass one or two other members of the ExCo in future issues of *BMVA News*.)

Having touched on the BMVA's finances, it is worth reporting that we are financially very healthy (though I am desperately trying to find some wood to touch as I write this). On the other hand, we do manage to spend substantially more in a year than we bring in; this can continue for a few more years before it becomes a problem but clearly there is a need to do things that increase our income. Hosting a major international conference normally brings a large boost to a local vision association's finances; the lead times in bidding for conferences are long but the ExCo is now starting to talk about helping frame a bid ... and there are one or two more ideas under discussion too.

Although an academic and vision researcher, I guess I am quite an unusual one, for I worked for some years in industrial vision research before moving to a university; and in the past my research has also spanned areas such as image coding, virtual and augmented reality and wearable computing. People who know my research will be aware that I have long had an interest in the evaluation of vision algorithms, most recently focussing on statistically valid ways of comparing performance. People may also have read the thesis of my student Olly Oechsle, who won the Sullivan thesis prize in 2009: Olly devised a way of building vision systems from components using machine learning and demonstrated the efficacy of this approach on a range of problems.

These are two aspects of the problem that interests me most, developing a way to produce a 'generic' vision system that can learn to solve a wide variety of problems purely by training – and having bashed my brain against this for about a decade now, I am finally starting to make some progress. However, I suspect I am the only person in the world trying to do this! Why should I be interested in such a seemingly obscure problem? It is partly (in the words of John F. Kennedy) "because it is hard" but mostly because I find it incomprehensible that a robot of the future would have to have an explicitly programmed solution to every visual task that it might encounter. Robots have to learn to see.

Adrian Clark  
 BMVA Chair  
 email: [chair@bmva.org](mailto:chair@bmva.org)

## Report on MICCAI 2013

The 16<sup>th</sup> International Conference on Medical Imaging Computing and Computer Assisted Intervention (MICCAI) was held at the Toyoda Auditorium, Nagoya University, Japan, during 22–26 September 2013. The main conference took place during 23–25 September and 21 satellite workshops, 6 tutorials and 5 challenges were organised on the days surrounding the main conference.



Toyoda Auditorium, venue of MICCAI 2013

Japan and Nagoya have a long history in the area of MICCAI. The city of Nagoya is Japan's representative manufacturing hub where centres of excellence and companies involved in the automobile and aerospace industries as well as in the development of medical robots are concentrated. Computer-aided diagnosis research started at Nagoya University 50 years ago.

MICCAI annually attracts world-leading scientists, engineers and clinicians from a wide range of disciplines associated with medical imaging and computer assisted surgery. It is the most important and prestigious conference in the area of medical image analysis. This was the second time that the MICCAI conference was held in Japan (in 2002 it was held at the University of Tokyo). This year MICCAI received 798 full paper submissions. In total, 262 papers were selected for publication: 37 oral and 225 poster presentations. With more than 700 attendees from over 30 countries, MICCAI 2013 was well attended and provided a great platform for knowledge exchange, open discussions and networking.

The workshops before and after the main conference provided a comprehensive overview of many areas in both the MIC and CAI domains. The workshops covered selected topics in more detail as was possible during the main conference. In line with my current research, I attended the 4<sup>th</sup> International Workshop on Machine Learning in Medical Imaging and the MICCAI 2013 Workshop on Medical Computer Vision.

The main conference included two keynote talks, 37 single stream oral presentations, and three poster

sessions. The presentations covered a wide range of topics from within MICCAI including, but not limited to, image reconstruction and enhancement, image registration, machine learning and statistical modelling, computer aided diagnosis and imaging biomarkers, intra-operative guidance and robotics, image segmentation, and motion modelling.



Keynote talk by Dr Atsushi Miyawaki

The two keynote speakers shared their past and current achievements in the area of MICCAI. Dr Atsushi Miyawaki gave a talk entitled "Cruising Inside X". His talk focussed on demonstrating how fluorescence can be used in live cell imaging experiments to visualise how biological molecules behave in response to external stimulation. Professor Toshio Fukuda discussed "Simulation based Medicine for Intravascular Surgery". His talk aimed at demonstrating how an endovascular micro surgery system can be used for the skills training of medical doctors as well as for the development of medical technologies such as catheters or stents.



Participants discussing posters during the coffee break

The oral programme of the main conference covered different topics every day. The most relevant session to my research was "Machine learning in medical image computing" where methodological advances for a range of modalities (e.g. 3D, 4D, ultrasound, fluoroscopy) were presented. In terms of application areas, this session was rather cardiovascular dominated. I also enjoyed all other oral sessions which gave me the opportunity to learn more about the research that is being conducted in all areas of MICCAI. Personally, I

think that I benefitted most from the very active poster sessions – both as a poster presenter and as a poster visitor. The poster sessions enabled direct interaction between participants for an effective exchange of ideas, feedback, and scientific and experimental knowledge. It was the ideal environment to promote my own research, and a great networking platform.

I was given the opportunity to present my work on “Accurate Bone Segmentation in 2D Radiographs Using Fully Automatic Shape Model Matching Based On Regression-Voting” in the *Segmentation* poster session on day two of the main conference. This year, all poster presentations were introduced with a short poster teaser talk followed by a guided poster tour which allowed for additional explanations and gave room for discussion. My poster presentation was very well attended. I much enjoyed explaining my work to a number of researchers from all over the world. This presentation gave me the opportunity to show my research to a wide audience and to discuss its applicability and implications. I answered several interesting questions, received valuable feedback and gained insights into potential future research topics. In addition, I made new contacts with researchers who are working in a similar or related topic.



Traditional Japanese dance performance at the gala dinner

The conference dinner on the second day of the main conference was held at The Westin Nagoya Castle, a luxury venue located in front of Nagoya Castle. This gave participants the chance to experience not only a variety of Japanese cuisine but also some traditional Japanese dance and music as well as Sake.

The main conference ended with a special session on “How do our experts see the future of medical imaging and computer assisted interventions?” which I found very interesting and valuable. The session was chaired by Nassir Navab and the panel consisted of Kensaku Mori, James Duncan, Nicholas Ayache, David Hawkes, Russel Taylor, Guang-Zhong Yang, and Ron Kikinis. To highlight some of the aspects that were brought up, the future will bring multi-scale, multi-modality and multi-disciplinary analyses leading to big data. Machine

learning will continue to play a part in areas such as intra-operative analysis and information support. Image registration and segmentation may or may not continue to play a considerable role. Most importantly though, all experts agreed that there should and will be an increased focus on clinical applications, translating technological development into clinical practice with the aim of stratified patient management: Personalised–Predictive–Preventive.

I had many rewarding experiences by attending MICCAI 2013 where world leading researchers presented technological advances and research results in all areas of MICCAI. It was an opportunity for me to present my work and to get feedback on my research from the international community, to gain knowledge about recent developments in the area of MICCAI, and to expand my international network. The latter of which, I am expecting to lead to interesting collaborations in the future.

Finally, I would like to thank the BMVA and the IET for providing me with the financial support and the opportunity to attend MICCAI 2013.

Claudia Lindner  
University of Manchester, UK  
email: [claudia.lindner@postgrad.manchester.ac.uk](mailto:claudia.lindner@postgrad.manchester.ac.uk)

## BMVA Computer Vision Summer School 2014

30 June – 4 July, Swansea University, UK

The BMVA runs an annual Computer Vision Summer School aimed at PhD students in their first year, though it will be beneficial to other researchers at an early stage in their careers. Despite the title, students from non-UK universities are welcome to attend, as well as students from UK universities. Places are limited to ensure good interaction in lab classes.

The 2014 Summer School will take place at Swansea University between 30 June and 4 July. It will consist of an intensive week of lectures and lab sessions covering a wide range of topics in Computer Vision and Digital Image Computing. Lecturers are researchers from the most active Computer Vision research groups in the UK.

In addition to the academic content, the Summer School provides a networking opportunity for students to interact with their peers, and to make contacts among

those who will be the active researchers of their own generation.

Some quotes from delegates who attended the previous Summer Schools at Manchester University and Kingston University: "I think the variety of the topics is very good", "Diverse set of requirements were handled very well. I found it extremely helpful and fun!", "Nice overall atmosphere to get in touch with people working in a similar/related field". "Lecturers did a very good job in bringing the topics across". "Thanks for organizing! I've met cool people and learnt a lot".

To find out more, follow the link to the Summer School pages:

<http://bmva2014.swan.ac.uk>

Dr Xianghua Xie  
Swansea University  
email: [x.xie@swansea.ac.uk](mailto:x.xie@swansea.ac.uk)

## Call for Expressions of Interest to Host BMVC in 2015 or 2016

As BMVC continues to become more popular, the BMVA Executive Committee considers it wise to put in place the organisation of the conference two years in advance. To that end, the Executive Committee would like any interested parties to inform them of their interest in hosting BMVC in either 2015 or 2016. At this stage only an expression of interest is required: pending discussion by the Executive Committee, successful expressions of interest will be asked to supply an official bid to hold the conference.

For the expression of interest please supply the following details:

- Main contact for the conference: name, email and phone.
- Prospective members of the conference organising committee.
- Provisional dates for the conference, with a confirmation of provisional booking, details of accommodation, rooms and arrangements for conference venue and meals.

BMVC is traditionally held in one of the first two weeks of September and runs as a single-track conference with podium and poster sessions from Tuesday through to Thursday lunchtime. The pre-conference Monday afternoon is normally scheduled for a tutorial session,

and a separate UK PhD student workshop is held on the Friday.

The main conference auditorium must be large enough to accommodate 250 delegates and should be a tiered auditorium with adequate A/V facilities. The poster room should be capable of holding 150 2m × 2m poster boards, ideally in the same contiguous space (e.g., a large hall). For further information on preparing a proposal to run BMVC please refer to:

[http://www.bmva.org/w/bmvc\\_proposals](http://www.bmva.org/w/bmvc_proposals)

Please send expressions of interest to the BMVA Chair, Dr Adrian Clark, by 1 March 2014.

Adrian Clark  
BMVA Chair  
email: [chair@bmva.org](mailto:chair@bmva.org)

## BMVA Student Symposium



One-day BMVA Technical Meeting at the BCS, 5 Southampton Street, London, WC2E 7HA, UK on Wednesday 5 February 2014.

Chair: Simon Hadfield

Registration:

Book online at [www.bmva.org/meetings](http://www.bmva.org/meetings), £10 for BMVA Members, £30 for non-Members including lunch.

- 10.00 Arrival, registration and tea/coffee
- 10.20 Welcome, Simon Hadfield
- 10.30 Keynote 1 – Auto-annotation and self-assessment in ImageNet, Vittorio Ferrari (University of Edinburgh)
- 11.25 Oral 1 – Transductive transfer machines, Nazli Farajidavar and Teofilo deCampos, Josef Kittler (University of Surrey)
- 11.50 Oral 2 – Upper body pose estimation using monocular vision and Kinect pose priors, Michael Burke and Joan Lasenby (University of Cambridge)

12.15 Lunch  
12.45 Poster Session 1

- Simultaneous tracking and modelling – Karel Lebeda (University of Surrey)
- Fetal Head detection from sequences of ultrasound videos – Mohammad Maraci (University of Oxford)
- Glaucoma classification using texture and histogram based approach – Suraya Mohammad (University of Manchester)
- Markerless respiratory motion modelling using the Microsoft Kinect for Windows – Fatemeh Tahavori (University of Surrey)
- Novel view synthesis for video conferencing – Brooks Paige (University of Oxford)
- Texture classification with Fisher Kernel extracted from the continuous models of RBM – Tayyaba Azim (University of Southampton)
- Face recognition with 3D morphable models – Guosheng Hu (University of Surrey)

13:30 Keynote 2 – What I have learnt about vision research, Andrew Fitzgibbon (Microsoft Research Cambridge)

14:25 Oral 3 – Fast object segmentation in unconstrained video, Anestis Papazoglou and Vittorio Ferrari (University of Edinburgh)

14:50 Coffee + Poster session 2

- 3D Level set initialisation for the hippocampus segmentation – Maryam Hajiesmaeili (Kingston University London)
- Detecting mitotic cells in histopathology images – Violet Snell (University of Surrey)
- Object filtering by rotational invariant Hough transform – Anna Molder (Manchester Metropolitan University)
- Multitouchless: Real-Time fingertip detection and tracking using geodesic maxima – Philip Krejov (University of Surrey)
- Learning to recognise dynamic visual content – Matt Marter (University of Surrey)
- An array-of-histograms feature space for vision tasks using dual-tree complex wavelets – Stewart Forshaw (University of Cambridge)

15:35 Oral 4 – Accurate bone segmentation in 2D radiographs using fully automatic shape model matching based on regression-voting, Claudia Lindner, S Thiagarajah, J.M. Wilkinson, G.A. Wallis and T.F. Cootes (University of Manchester, University of Sheffield)

16:00 Oral 5 – Sequential input space carving for visual codebook design, Barathy Mayurathan, U.A.J. Piniidiyaarachchi, M. Niranjana (University of Southampton, University of Jaffa)

16:25 BMVA, Social media and you, Paul Tar (University of Manchester)

16:35 Discussion, Simon Hadfield, Vittorio Ferrari, Andrew Fitzgibbon

16:55 End of Meeting

Andrew Gilbert  
BMVA Technical Meetings Organiser  
email: a.gilbert@surrey.ac.uk

## Vision for Language and Manipulation



One-day BMVA symposium in London, UK on Friday 11 July 2014

Chairs: Nick Hockings and Dr Walterio Mayol-Cuevas

Keynote speakers: Professor Jan Peters, Professor Angelo Cangelosi, Professor Sinan Kalkan, Dr Marco Davare

[www.bmva.org/meetings](http://www.bmva.org/meetings)

Human dexterous manipulation remains unmatched in robotics. The fusion of visual, tactile and proprioceptive perception plays a central role in planning and control of manipulation. Many of the same percepts that are useful for manipulation have also been shown to be useful in the robotic grounding of natural language.

The aim of this meeting is to bring together researchers and practitioners, from both industry and academia, interested in any aspects of vision for manipulation or natural language grounding.

We are seeking papers that address the challenges of vision for manipulation and language including, but not limited to:

- Percepts of objects, affordances, forces, actions, anticipated effects
- Visual-tactile-proprioceptive fusion

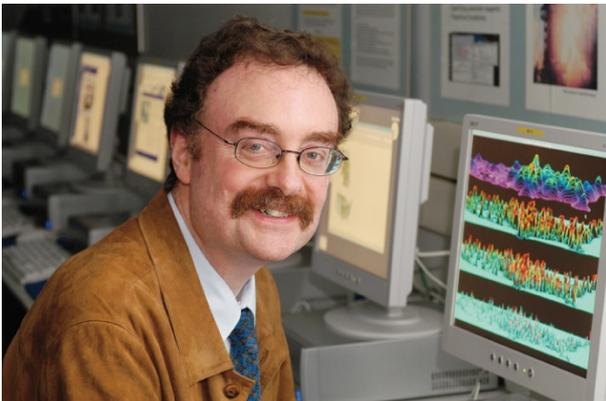
- Active vision for planning and control of palpation, grasping, and manipulation
- SLAM for deformable, breakable objects, fluids and occlusions in a dynamic world
- Hand-eye coordination, self-tracking, visual control of manipulation
- Recognition of other agents
- Vision for imitation, interaction, cooperation and communication with other agents
- Percepts leading to the emergence of syntax in language and motion planning
- Learning methods for visual grasping and control methods for visual grasping.

#### Call for Participation:

All those interested in presenting material at this meeting are invited to submit a paragraph describing their topic to [n.c.hockings@bath.ac.uk](mailto:n.c.hockings@bath.ac.uk) for consideration by 3 April 2014.

Andrew Gilbert  
 BMVA Technical Meetings Organiser  
 email: [a.gilbert@surrey.ac.uk](mailto:a.gilbert@surrey.ac.uk)

## Professor Fionn Murtagh moves to De Montfort University as Head of School



Fionn Murtagh FIAPR took up the position of Head of School of Computer Science and Informatics, De Montfort University, in July 2013. There is an ongoing link though with the Computer Learning Research Centre at Royal Holloway. Particular strengths in Fionn's new School include holography, led by Professor Martin Richardson, with lots of applications to television and cinematography (Martin has worked with David Bowie and Martin Scorsese, among others),

as well as security (hologram watermarks). Games is a big area in DMU, for all of teaching, commercial work and research. Small wonder that Fionn's work on narrative and narrativisation, based on film scripts, novels and other documents, is aiming at building significant linkage with interactive, 3D visual environment functionality. Given the profile of DMU's Centre for Cyber Security, working with Deloitte and law enforcement and security authorities, and industrial security work now with EADS, forensic imaging and e-discovery are important focal points. Given that Fionn served for a long time with the European Space Agency, he would find it very desirable to maintain DMU's prominent work up to now in altimetry data analytics, supported under a line of ESA contracts.

A translation into Chinese is planned for Fionn's 2010 book on wavelets and multiresolution transforms in general: J.L. Starck, F. Murtagh and J. Fadili, *Sparse Image and Signal Processing: Wavelets, Curvelets, Morphological Diversity*, Cambridge University Press, 2010.

There will be an updated version of the following survey in a new version of this Handbook: J.L. Starck, F. Murtagh and M. Bertero, *Starlet transform in astronomical data processing: application to source detection and image deconvolution*, in *Handbook of Mathematical Methods in Imaging*, Springer, ed. Otmar Scherzer, pp. 1489–1531, 2011.

Professor Roy Davies  
 Editor, BMVA News  
 email: [e.r.davies@rhul.ac.uk](mailto:e.r.davies@rhul.ac.uk)

## BMVC 2014 – Call for Papers



The British Machine Vision Conference (BMVC) is one of the major international conferences on machine vision and related areas. Organized by the BMVA, the 25<sup>th</sup> BMVC will be held at the University of Nottingham, UK, 1–5 September 2014. Professors Luc van Gool (ETH Zürich, CH) and Fei-Fei Li (Stanford University, US) will be giving keynote speeches on 2 and 3 September respectively.

Authors are invited to submit full-length, high-quality papers on topics in image processing and machine vision. Papers covering theoretical and/or applied work on computer vision are invited. All papers will be

reviewed double blind, normally by three members of our international programme committee. Reviews will judge submissions on originality, empirical results, quality of evaluation, and presentation.

Please note that BMVC is a single-track meeting with oral and poster presentations and will include two keynote presentations and two tutorials.

Topics include, but are not limited to:

- Statistics and machine learning for vision
- Stereo, calibration, geometric modelling and processing
- Face and gesture recognition
- Early and biologically inspired vision
- Motion, flow and tracking
- Segmentation and grouping
- Model-based vision
- Image processing techniques and methods
- Texture, shape and colour
- Video analysis
- Document processing and recognition
- Vision for quality assurance, medical diagnosis, etc.
- Vision for visualization, interaction, and graphics
- Object detection and recognition
- Shape-from-X
- Video analysis and event recognition
- Illumination and reflectance

#### Organisation Committee

BMVC 2014 is hosted by the Computer Vision Laboratory (CVL) at the University of Nottingham.

General chairs: Dr Michel Valstar, Dr Andrew French, Professor Tony Pridmore

Conference Management Dr Susannah Lydon

Student Workshop Dr Peter Blanchfield

Further details are available at the BMVC 2014 website.

Dr Michel Valstar  
University of Nottingham  
email: [michel.valstar@nottingham.ac.uk](mailto:michel.valstar@nottingham.ac.uk)

## MIUA 2014

9–11 July 2014, London, UK, <http://www.miu.org.uk>

Paper submission deadline:	17 March 2014
Notification of acceptance:	5 May 2014
Camera-ready paper due:	23 May 2014
Early-bird registration deadline:	6 June 2014
Conference:	9–11 July 2014

MIUA is the principal UK forum for communicating research progress in image analysis applied in the medical and biomedical sciences. MIUA 2014 is the 18<sup>th</sup> in the series of successful annual meetings, it will be organised by City University London and hosted on the campus of Royal Holloway University of London. The meeting prides itself on attracting papers on a wide range of topics from biological to clinical from a variety of viewpoints from theoretical to applied techniques, offering many opportunities for discussion and inspiration.

MIUA is a single-track meeting with oral and poster presentations. All accepted contributions will be published and the full proceedings will be available at the conference and on-line. Prizes will be awarded for the best work.

Technical papers (6 pages) and review papers (8 pages) are solicited on any topic within the scope of the conference. Each paper will be evaluated by three reviewers. Challenge abstracts (2 pages) are also solicited. These should outline challenging image-analysis applications and/or unsolved problems from a clinical perspective. Contributions from across the spectrum of medical image analysis – from technical advances to novel practical applications – are welcome. Contributions from both inside and outside the UK are welcomed and encouraged.

MIUA 2014 will feature presentations from the following keynote speakers:

Professor Dave Hawkes, University College London  
Professor Jean-Christophe Olivo-Marin, Institut Pasteur  
Professor Roger Gunn, Imperial College London

Royal Holloway grounds are just outside the M25 – seven miles away from Heathrow Airport. Egham is the nearest rail station, about 1 mile away, and trains to Waterloo station take around 40 minutes. There will be ample parking space for those driving to the conference.

Further details of the conference, paper submission, scope and venue can be found at

<http://www.miu.org.uk>.

For questions about registration, visas and payments please contact: [events@city.ac.uk](mailto:events@city.ac.uk).

For questions about paper submissions, academic content, sponsorships and all technical enquiries please contact: [miaa2014@city.ac.uk](mailto:miaa2014@city.ac.uk).

Chairs:

Constantino Carlos Reyes-Aldasoro, City University London  
Greg Slabaugh, City University London

Dr Constantino Carlos Reyes-Aldasoro  
City University London  
email: [reyes@city.ac.uk](mailto:reyes@city.ac.uk)

## Toby Breckon moves to Durham



Dr Toby Breckon, BMVA Treasurer, has moved to the School of Engineering and Computing Sciences, Durham University as of October 2013 following a 7-year tenure at the postgraduate-only Cranfield University. Toby joined the interestingly named “Innovative Computing Group” and maintains his diverse range of interests across computer vision including 3D object recognition, automotive vision systems and cross-modal sensing. “The move offers many new opportunities, a return to the joys of undergraduate teaching in CS and lots of potential new collaborations across other subject areas” says Toby (<http://www.durham.ac.uk/toby.breckon/>)

Toby will be continuing as BMVA treasurer (please send all invoices/claims to *Durham* from now on!) and we wish our treasurer well in his new endeavours.

Professor Roy Davies  
Editor, BMVA News  
email: [e.r.davies@rhul.ac.uk](mailto:e.r.davies@rhul.ac.uk)

## Updated List of Officer Positions in the BMVA Exec

As announced in the last issue of BMVA News, the BMVA elections took place in September 2013 and Dr Adrian Clark took over the role of Chair on 1 October.

The following is the updated list of the officer positions:

Chair	Dr Adrian Clark (E12) <sup>2</sup>
Meetings and Company Secretary	Dr Neil Thacker (E12)
Treasurer	Dr Toby Breckon (E12)
IAPR representatives	Prof Mark Nixon <sup>3</sup> Prof Edwin Hancock <sup>3</sup>
Meetings Coordinator	Dr Andrew Gilbert <sup>3</sup>
Newsletter Editor	Prof Roy Davies (E13) <sup>2</sup>
New Media Publicity	Dr Paul Tar <sup>3</sup>
Industrial Liaison	Dr Stephen Pollard <sup>3</sup>
Bursaries Officer	Dr Lourdes Agapito (E13)
Thesis Archive	TBA
Membership Secretary	Dr Helen Cooper
BMVC 2013 Chair	Prof Majid Mirmehdi
BMVC 2014 Chair	Dr Tony Pridmore
Summer School	Dr. Xianghua Xie
Other elected members	Prof John Illingworth (E13) Prof Majid Mirmehdi (E13) Dr Sasan Mahmoodi (E13) Dr Carol Twining (E12)
Ex-officio members	Dr Andrew Fitzgibbon

### Notes

1. The Thesis archive is being migrated and the Executive Committee are looking for a volunteer to take over once this process has been completed.
2. The executive committee would like to thank Royston Parkin for their service holding and maintaining the BMVA membership database. It has been decided to bring this role in house and Dr Helen Cooper will hold the membership records at the University of Surrey from 1 January 2014. Any personal detail updates should be made via the official address [membership@bmva.org](mailto:membership@bmva.org) and include your BMVA membership number. Pending the creation of an online renewal form, membership renewal cheques can be sent to Dr Cooper at the address below.

Helen Cooper  
BMVA Membership Secretary  
University of Surrey  
email: [helen.cooper@surrey.ac.uk](mailto:helen.cooper@surrey.ac.uk)

<sup>2</sup>E12 and E13 refer to the date of election.

<sup>3</sup>co-opted