

CCPi Exec Meeting – Tuesday 2nd October 2018

University of Manchester and RCaH/Harwell Campus: using 'zoom' video-conference

Minutes

Attendees [10] Apologies: Peter Lee, Manuchehr Soleimani, Martyn Winn and Barbara Montanari.

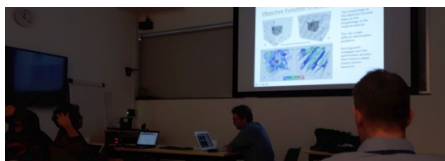
- Jakob Sauer Jørgensen (Manchester, JJ) [remote]
- Martin Turner (Manchester, MT) [RAL]
- Philip Withers (Manchester, PW) [UoM]
- Bill Lionheart (Manchester, BL) [UoM]
- Daniil Kazantsev (Manchester, DK) [RAL]
- Edoardo Pasca (STFC, EP) [RAL]
- Matt Wilson (STFC, Detector Development) [RAL]
- Kalpani Vitharana (Manchester, KV) [RAL]
- *Matthew Spink (B24 (DLS), senior support scientist) – guest speaker*
- *Brian Bay (DVC code from Oregon University) – guest speaker*

As well as the main Exec Meeting we had:

- a tour at 11am of B24 hosted by Maria Harkiolaki;



- a 12 noon Lunch and Learn (attendance across sites 34) session with talks by Brian Bay and Daniil Kazantsev



- and a 2pm coding session on DVC with Brian Bay at RAL/DLS.

Minute	Item	Action
02.10.01	<p>1. Network Activities</p> <ul style="list-style-type: none">• CCPi Fellowships approved for two visits: Brian Bay and four visitors to dXCT• Approved UKRI grant: WMG requests a CCPi board member• Joint CCP hackathon - workshops/events on code integration• Lunch-and-Learn and Show-and-Tell events: http://tyne.dl.ac.uk/twiki/bin/view/Visualisation/VisSeminars	EP/MT
02.10.02	<p>CCPi conferences and workshops: Summer 2018</p> <ul style="list-style-type: none">• Advanced Xray Imaging Workshop June 15 2018• Fringe meeting June 14 2018: short informal presentations focusing on sharing reconstruction/analytics algorithms across the modalities	EP/MT

	<p>of use; and consider how improved sharing/lessons/best-practice can occur</p> <ul style="list-style-type: none"> • dimension XCT conference at Nottingham: July 2018 • ToScA symposium: September 2018. • EGUK: Computer Graphics & Visual Computing (CGVC) 2018 with XCT keynote: Richard Johnston (Professor in materials science and engineering) • 2-6 September 2018 9th World Congress on Industrial Process Tomography at the University of Bath • Virtual Quantification (Llion Evans, Swansea) 22 May 2018 First Stakeholder Meeting; 3-4 (training) and 5-6 (users' workshop) September 2018 IBFEM-4i 2018, Swansea http://ibfem.co.uk/2018/ • 3-4 September 2018 3rd Conference on Research Software Engineering http://rse.ac.uk/conf2018/ with presence at the SCD stand (plus 5 September 2018 Tier-2/Regional HPC Workshop) 	
02.10.03	<p>2. CIL-Core development: linking with Flagship software; including DVC code being ported into CIL</p> <p>Also code porting from Southampton</p>	JJ, DK EP
02.10.04	<p>Papers etc:</p> <ul style="list-style-type: none"> • TomoPhantom software and paper: https://github.com/dkazanc/TomoPhantom • Multichannel Inverse Imaging paper: http://iopscience.iop.org/article/10.1088/1361-6420/aaba86 • Parmesh Gajjar paper: https://aip.scitation.org/doi/full/10.1063/1.5044393 • Poster at The Software Sustainability Institute Workshop: Impact of international research software collaboration on Tuesday 24th April at the Museum of Science and Industry (on zenodo) • CCPi posters were at d-XCT; ToScA and Advances in Xray Imaging events 	MT
02.10.05	<p>3. New Recruits</p> <ul style="list-style-type: none"> • Flagship posts x2 been offered (probable start dates 1 Nov 2018 and 1 Dec 2018) • Core CCPi role x1.5: New Recruit (potentially start in Jan 2019); Tomas Kulhanek (based at DL) to join (mid Oct - end Dec 2018) to work on continuous integration and also test-cases at Manchester (contact Parmesh Gajjar and Tristan Lowe) 	JJ, EP
02.10.06	<p>4. AOB</p> <ul style="list-style-type: none"> • Website and email list (review by EP/MT) • International Review complete for CoSeC and informal ongoing monthly events (DL and RAL) as well as away-days (30 March-1 April 2018; 2 October) • Support colourbay (monthly) meetings and development progress. • Beamtime (with CCPi LoS); <ul style="list-style-type: none"> - 4 September 2018 Advanced Radiotherapy https://www.birmingham.ac.uk/research/activity/nuclear/about-us/Facilities.aspx with Swansea - IMAT February 2019 	ALL
	<p>Next meeting is the Working Group planned for 19 November 2018: 11am-2pm; Follow-on is a CCPi Flagship project meeting 2pm-4pm</p>	

Agenda etc at: http://tyne.dl.ac.uk/twiki/bin/view/Visualisation/CCPiTomo			
Minute	Action	Person Responsible	Completion date
29.03.01	Attend WMG equipment governance group	MT	Jan 2019
29.03.02	Summer students to present at lunch and learn[along with Nghia Vo]	EP	Dec 2018
29.03.03	Bill Lionheart to investigate SAXS project - approve travel	BL	Nov 2018
29.03.04	B24 dataset to be investigated (limited angle 150 deg; 500eV to move to 2.5keV) (link DK,EP)	DK EP	Jan 2019
29.03.05	Parmesh Gajjar to attend ToSCA USA (and Swansea)	PG	Mar 2019
29.03.06	Thomas Blumensath code to be investigated for CIL inclusion	EP to contact then TL/PG	Jun 2019
29.03.07	DVC to be integrated and BSS Fellowship to be applied for.	BB EP MT DK	Oct 2018
29.03.08	Process Tomography - further integration by invitation to Bergen group ("low count and high speed is the commonality")	BL MS	Jun 2019
29.03.09	New proposal "Rich-and-non-linear tomography operators" (BL et al)	BL et al	Dec 2019

Appendix A: Actions from past Exec and Working Groups

Minute	Old Actions	Person Responsible	Date due to be completed by
29.03.01	Inform Approved items and liaise	MT	Sep 2018
29.03.02	Stand allocation three events	EP	Sep 2018
29.03.03	CAS Paper	DK	Mar 2019
29.03.04	Informal speakers at Manchester	MT	Dec 2018
29.03.05-07, .13	Advertise new fellows/ LoS/ meetings	Newsletter -ALL	Ongoing
29.03.08	Fringe event coordination	MT	Jun 2018
29.03.09	New staff member	EP/MT	Jun 2018
29.03.10, .12	CIL/Flagship launch and new testers	EP	Jun 2018
29.03.11	Case Study coordination	MT/EP	Ongoing
29.03.14	Brian Bay or student to speak	SN	Jul 2018
15.11.01	Coordinate a CPC paper proposal for 2019	DK	See Above
15.11.02	Coordinate with Nick Brierley/MTC on show and tell for 2018	EP	Done – talk at Manchester
15.11.03	To coordinate the Avizo – Amira software licenses between DLS, RCaH, ISIS and SCD.	EY	
15.11.04	Prepare pull-ups for ToSCA/D-XCT roadshow and talks	EP	See Above
15.11.05	Make a small dataset working with DK on phantom dataset for CIL	EP	
15.11.06	Coordinate and organise a CCPi developers' day at University of Huddersfield.	MT	
15.11.07	Coordinate an invitation for Lee Margetts.	MT	Done

15.11.08	To give update on ISO standard for XCT	MT	Done
15.11.09	To write up and make available one page documentation on cone beam reconstruction algorithm	SN	
15.11.10	To make a small downloadable open dataset for CIL reconstruction algorithms. Either using Sophia beads dataset	SN	
15.11.11	To estimate efforts to compare the trees and to illustrate the problem in compare two trees of the same images (with different number of projections, limited angle reconstruction)	EP	
15.11.12	To coordinate a programme (whoever interested to involve) to put together a work plan that leads to a paper on comparing the blind spot in CT reconstruction.	EP	
15.11.13	To get in touch with GD to send the paper and code on mesh to projection software.	EP	
15.11.14	To explore how to apply/try NV's denoising/pre-processing algorithms on IMAT data.	SN	
15.11.15	To get in touch with TB for using MapReduce for tomo reconstruction	EY	

Appendix B: list of Bid Proposal options – just a sample to be considered - snapshot (28/3/2018):

- STFC PE awards - new impact for Paleo results <https://www.stfc.ac.uk/public-engagement/public-engagement-grants/pe-funding-opportunities/stfc-public-engagement-spark-awards/> 19 April
- Royal Society Industrial Fellowships <https://royalsociety.org/grants-schemes-awards/grants/industry-fellowship/> 17 April
- Wolfson Fellowship - Royal Society <https://royalsociety.org/grants-schemes-awards/grants/royal-society-wolfson-fellowship/> 2 May
- International Collaboration Awards Royal Society <https://royalsociety.org/grants-schemes-awards/grants/international-collaborations/> 3 May
- Ernest Rutherford Fellowship STFC <https://www.stfc.ac.uk/funding/fellowships/ernest-rutherford-fellowship/> 20 September
- Industrial CASE Studentships STFC <https://www.stfc.ac.uk/funding/studentships/industrial-case-studentships/> 4 October
- EU COST grant for EGUK - vol viz work across Europe http://www.cost.eu/participate/open_call 20 April and every six months