

Franciscus van Lingen

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Professional Preparation

Ph.D.	Computer Science	Eindhoven University of Technology	2004
M.Phil.	Computer Science	University of the West of England	2001
P.D.eng.	Software Technology	Eindhoven University of Technology	1999
M.Sc.	Mathematics	Utrecht University	1996

Appointments

CMS Technical Lead	Radio Television Suisse (RTS), Geneva, Switzerland	2009
Staff	Caltech, Pasadena, United States	2003 - 2009
Software Technologist	CERN, Geneva, Switzerland	1999 - 2003
Software Developer	FEL-TNO The Hague, Netherlands	1997 - 1999

Research Positions

Co Investigator (Technical Lead)	Development and operation of multimedia CMS Infrastructure for Swiss Public Broadcasting (RTS). \$2,500,000 (migration), \$1,000,000 (annual)	2009
Co Investigator	Rootlets (Collaborative analysis) DOE award: DOE DE-FG02-06ER86271, \$ 220,000	2008 - 2009
Co Investigator	Planets (managed networking) NSF award: NSF PHY-0622423, \$ 598,285	2008 - 2009
Co Investigator (Technical Lead)	CMS Monte Carlo production development (through DISUN) NSF award : NSF PHY-0533280, \$ 2,500,000	2007 - 2009
Co Investigator (App. coordinator)	Ultralight (managed network) NSF award : NSF PHY-0427110, \$ 1,970,000	2005 - 2008
Co Investigator	PPDG (Clarens collaborative analysis) DOE award : DOE DE-FC02-01ER25459	2003 – 2006
Co Investigator	CAIGEE (Grid analysis) NSF award : NSF PHY-0312038	2003 – 2004
Co Investigator	MonarcII (simulation) project	2003
Co Investigator	Detector Description project	1999 – 2003
Co Investigator	Mine Warfare Testbed GIS	1997 – 1999

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Selected Publications

- F. van Lingen, D. Evans, S. Metson, S. Wakefield, R. Wilkinson, J. Jackson, D. Spiga, S. Foulkes, A. Afaq, V. Kuznetsov, E. Vaandering, S. Ryu, F. Farina, G. Codispoti, M. Cinquilli, "Job life cycle management libraries for CMS workflow management projects", in J. Phys.: Conf. Ser. 219 042024, 2010
- D. Evans, D. Mason, O. Gutche, S. Metson, S. Wakefield, D. Hufnagel, A. Hassan, A. Mohapatra, M. Miller, F. van Lingen, "Large Scale Job Management and Experience in Recent Data Challenges within the LHC CMS experiment", in proceedings of XII Advanced Computing and Analysis Techniques in Physics Research, 3-7 Nov. 2008, PoS (ACAT08) 032
- F. van Lingen, et.al. "*Science Gateways: Progress using the Clarens Toolkit on TeraGrid*", in proceedings of Teragrid 2007, Madison Wisconsin, June 4-8 2007 (judged as one of three best track papers)
- F. van Lingen, et.al. "*The Ultralight project: The Network as an Integrated and Managed Resource for Data Intensive Science*", in Computing In Science and Engineering part II, Issue on grid computing, November 2005
- F. van Lingen, et.al. "*Distributed Computing Grid Experiences in CMS*", in IEEE Transactions on Nuclear Science, 52(4):884-890, August 2005
- F. van Lingen, et.al. "*The Clarens Web Service Framework for Distributed Scientific Analysis in Grid Projects*", In Proceedings of the International Conference on Parallel Processing Workshops, Oslo, Norway, June 2005, IEEE Computer Society Order Number P2381, ISBN 0-7695-2381-1, pp45-52

Synergistic Activities

- Program committee member International Conference on Computational Science, Beijing China, May 2007
- Program committee Supercomputing 06, International Conference for High Performance Computing, Networking, Storage and Analysis, November 2006
- Program committee IEEE International Conference on e-Science and Grid Computing, 2007 (Bangalore) 2006 (Amsterdam), 2005 (Melbourne)
- Session chair, 8th ICATPP Conference on Astroparticle, Particle, Space Physics, Detectors and Medical Physics Applications, Como (Italy) September 2003

Awards

- 2008 CENIC innovation award
- 2007 Internet2 IDEA award

Collaborators and Co-Editors

Dimitri Bourilkov (University of Florida), Richard Cavanaugh (University of Chicago), Giulio Eulisse (North Eastern University), Dave Evans (FNAL), Dirk Hufnagel (CERN), Simon Metson (Bristol University), Harvey Newman (Caltech), Michael Thomas (Caltech), Peter Kreuzer (CERN), Stuart Wakefield (Imperial College London)