Dr Joe Rooney
Faculty of Mathematics, Computing and Technology
The Open University
Walton Hall
Milton Keynes
MK7 6AA
United Kingdom
j.rooney@open.ac.uk
DOB: 17/09/1949

HIGHER EDUCATION

Degrees

1967-70 BSc (Hons), University of Sussex, Falmer, UK.
(Mathematics/Physics)

1970-74 PhD, John Moores University, Liverpool, UK,
(Kinematics: *'A unified theory for the analysis of spatial mechanisms based on dual numbers and spherical trigonometry'*).

1995-97 MSc University of London, UK,
(Astrophysics: *'An investigation of the kinematic geometry of the Kerr metric using generalised complex and hypercomplex numbers'*).

Professional Qualifications

1974 AFIMA (Associate Fellow of the Institute of Mathematics and its Applications).

APPOINTMENTS AND EXPERIENCE

1979- Academic and Course Team Chair, The Open University, Milton Keynes, UK.
1978-79 Post Doctoral Research Fellow, The Open University, Milton Keynes, UK.
1975-78 Post Doctoral Research Fellow, Cranfield University, Cranfield, UK.
1974-75 Assistant Professor, University of Florida, Gainesville, Florida, USA.
1970-74 Research Assistant, John Moores University, Liverpool, UK.
1970-70 Actuarial Trainee, Royal Insurance Group, Liverpool, UK.

UNIVERSITY TEACHING AND STUDENT SUPPORT

Courses Taught at The Open University

(Rôles: Chair, Author, Editor, TV Presenter, Examiner, Marker, Tutor, Demonstrator, Monitor)
(Course codes: '*M*' ~ 'Maths', '*T*' ~ 'Technology', '*S*' ~ 'Science', '*P*' ~ 'Postgraduate', '*U*' ~ 'University')

T191: Personal and Career Development
MT365: Graphs, Networks and Design
MT264: Designing applications with Visual Basic
T207: The Engineer as Problem Solver
T307: Innovation: Designing for a Sustainable Future
T288: Robotic Autonomous Systems
T208: Autonomous Systems: Design Principles
T395 (and TZS395-Singapore): Mechatronics: Designing Intelligent Machines
MU120: Open Mathematics
T363: Computer Aided Design
PT616: Computer-aided Engineering
TM361: Graphs, Networks and Design
M336: Groups and Geometry
T264: Design: Principles and Practice
TM282: Modelling with Mathematics
T402: Open Technology Project
T401: Technology Project
T392: Engineering Product Design
T281: Basic Physical Science for Technology
T331: Engineering Mechanics: Solids and Fluids
T232: Engineering Mechanics: Solids
TS251: An Introduction to Materials
T801: MSc in Manufacturing Management Technology
T102: Living with Technology
T100: The Man-Made World

Courses Taught at Other Institutions

Cranfield University
Engineering Mechanics
Spatial Mechanisms
University of Florida
Differential Equations
Algebraic Curves
John Moores University
Mathematics

ADMINISTRATION AND MANAGEMENT

The Open University

2007-	MCT Faculty Academic Conduct Officer
2006-	MCT Faculty Library Representative
1980-2004	Member of Department of Design and Innovation Committee
1999–2002	Member of Technology Faculty Research Student Mentoring Group Mentor for Research Students in Design and EERU
2000–2002	Design Representative on Technology Research Board
2000–2002	Member of Technology Research Funding Committee
1999-2001	RAE Coordinator for UoA64 Art and Design
1999–2000	Design Representative on Technology Faculty Research Committee
1999–2000	Member of Technology Faculty Research Funding Sub-Committee

RESEARCH AND SCHOLARSHIP

Interests

Current research interests relate to the kinematic, dynamic and geometric design of robots and other multi-body systems. The focus is on geometric algebras (Clifford algebras), mathematical screw theory and various types of (non-Euclidean) geometries for the design of kinematic systems, variable-geometry mechanical structures and mechanisms, and robust mobile planetary and space robot systems.

Principal Investigator: Projects and Funding

2000–2005	HEFCE Project Capital Allocation Project, *'Laboratory Facility for Robotic Autonomous Systems'*	£146,372
2000-2003	OU Strategic Research Initiative Project, *'Kinematic design of manipulation and locomotion sub-systems for reconfigurable autonomous robots'*	£50,000
2000-2001	British National Space Centre/OU Project, *'Spatial and temporal aspects of robot behaviour'*	£20,000
1999	Technology Faculty Project, *'Kinematic and structural designs for the Beagle2 Mars lander manipulator arm'*	£2,386
1990-1992	Technology Faculty Project, *'The computer-aided design of precision robot manipulators'*	£2,500
1983-1987	SERC Project, *'The construction and evaluation of new robot gripper designs'*	£40,339
1983	OU Research Committee Grant, *'The kinematic interaction of co-operating robot manipulators'*	£1,480
1982-1983	OU Research Committee Project, *A computer-aided investigation of new robot manipulator designs*	£10,891
1980-1982	SRC Project, *'Structure and organisation in spatial kinematic chains particularly manipulator and pedipulator configurations'*	£20,533
1982	Technology Faculty Grant, *'End-effector for robot manipulator'*	£550
1981	OU Capital Equipment Grant, *'PUMA Robot manipulator arm system'*	£27,000
1980	Technology Faculty Capital Equipment Grant, *'Robotics equipment'*	£3,100

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POSTGRADUATE STUDENT ADVISOR/SUPERVISOR

1997-2007 The Open University
PhD Thesis Supervisor

1997-2000 University of Florida
PhD Thesis Advisor

1975 – 1977 Cranfield Institute of Technology
MSc Dissertation Supervisor

1974 – 1975 University of Florida
PhD Thesis Advisor
MSc Dissertation Supervisor

EXTERNAL ACADEMIC ACTIVITIES

Membership or Offices held

2011- Member of Nominating Committee for the Executive Council of IFToMM

2004-2011 Treasurer and Executive Council Officer for IFToMM

2009 Member of Conference Programme Committee for Computational Kinematics (CK2009), University of Duisberg-Essen, Germany

2009 Member of Conference Scientific Committee for Reconfigurable Mechanisms and Robots (ReMAR 2009), King's College, London

2011-2012 Member of Conference Scientific Committee for Mechanism Design for Robotics, Beihang University, Beijing, China

2011- Associate Editor for open access Journal in Mechanical Sciences

External Examining (PhD Examiner)

2011 King's College London
2003 University of Durham
2003 University of Newcastle-upon-Tyne
1997 University of Salford
1988 University of Newcastle-upon-Tyne
1988 Loughborough University of Technology
1987 Loughborough University of Technology
1984 University of Edinburgh
1975 University of Florida

Academic Editorial Work

1979 Guest Editor for a Special Issue on '*Kinematic Structure'*
Environment and Planning B, Vol 6, No. 4, 1979*,*

Contributions to Conferences

2011-2012 Member of the Scientific Committee for the Symposium on Mechanism Design for Robotics held at Beihang University in Beijing, China

2009 Member of the Scientific Committee for the Reconfigurable Mechanisms and Robots (ReMAR2009) conference at King's College, London

2009 Member of the Programme Committee for the Computational Kinematics (CK2009) conference at University of Duisburg-Essen, Germany

Invited/Keynote Lectures

2011 Keynote Speaker at International Olympiad on Mechanism and Machine Science, Izhevsk State Technical University, Izhevsk, Russia, April 19-21, '*Some Geometries and Algebras for Application in Robotics*'

2010 Keynote Speaker at International Symposium on Mechanism Design for Robotics at Pan-American University, México City, México, September 28-29, '*A Brief Overview of Geometries and Algebras for Robotics*'

PUBLICATIONS

Edited Books

Rooney J, Steadman J P (eds.) (1987)
Principles of Computer-aided Design,
Pitman/Open University, London, 341 pp; ISBN: 0 273 02672 0

Rooney J, Steadman J P (eds.) (1988)
Principles of Computer-aided Design,
Prentice Hall, New Jersey (US Edition) ,341 pp; ISBN: 0-13-709346-2 025

Rooney J, Steadman J P (Hrsg.) (1990)
CAD: Grundlagen von Computer Aided Design
R Oldenbourg Verlag, München (German Edition), 453 pp; ISBN: 3-486-20706-7

Rooney J, Steadman J P (eds.) (1990)
Principles of Computer-aided Design,
Affiliated East-West Press, New Delhi (Indian Edition), 341 pp; ISBN: 81-85336-32-6

Clarke J A, Maver T W (Eds.), Rooney J (Sub-Ed.) (1992)
Dictionary of Computer Aided Design: The CAD Reference Guide,
Butterworth/Heinemann, London 1992, (78 entries), ISBN: 408051876

Chapters in Books

'A Dirac Model for Double Cover Representations of Robot Manipulator Platform Rotation'
in A Takanishi, Y Nakamura and B Heimann (Eds.) (2008) **RoManSy 17: Robot Design, Dynamics, and Control**, CISM, Udine, pp 493-503, ISBN: 978 4 906685 44 8

'Multivectors and Quaternions in Rigid Body Rotation: Clifford vs Hamilton'
in J-P Merlet and M Dahan (Eds.) (2007) **Proceedings of the 12th World Congress in Mechanism and Machine Science**, June 17-21, Besancon, France, on CD ROM

'William Kingdon Clifford (1845-1879)'
in M. Ceccarelli (Ed.) (2007), **Distinguished Figures in Mechanism and Machine Science**, Springer, Dordrecht, pp 77-114, ISBN: 978-1-4020-6365-7

'Geometric Configuration in Robot Kinematic Design'
in T. Zielińska and C. Zieliński (Eds.) (2006) **RoManSy 16: Robot Design, Dynamics, and Control**, Springer, Dordrecht, pp 55-62, ISBN: 3 211 36064 6

'Kinematic Structure for Robust Mechanical Architectures in Robotic Planetary Exploration'
in T S Bowling (Ed.) (2002) **Dynamics and Control of Systems and Structures in Space**, Cranfield University Press, pp 301-308, ISBN: 1 871315 79 4, (with J D Hobbs)

'Pose, Posture, Formation and Contortion in Kinematic Systems'
in G Bianchi, J-C Guinot and C Rzymkowski (Eds.) (2002) **RoManSy 14: Theory and Practice of Robots and Manipulators**, Springer, Dordrecht, pp 77-86, ISBN: 3 211 83691 8, (with T K Tanev)

'Rotation Symmetry Axes and the Quality Index in a 3D Octahedral Parallel Robot Manipulator System'
in J Lenarčič and F Thomas (Eds.) (2002) **Advances in Robot Kinematics: Theory and Applications**, Kluwer Academic, pp 29-38, ISBN: 1 4020 0696 9, (with T K Tanev)

'Introduction'
in J Rooney and J P Steadman (Eds.) (1987), **Principles of Computer-aided Design**, Pitman/Open University, London, pp 1-11, ISBN: 0 273 02672 0

'Representing Objects'
in J Rooney and J P Steadman (Eds.) (1987), **Principles of Computer-aided Design**, Pitman/Open University, London, pp 13-37, ISBN: 0 273 02672 0

'Wire-frame Modelling'
in J Rooney and J P Steadman (Eds.) (1987), **Principles of Computer-aided Design**, Pitman/Open University, London, pp 95-105, ISBN: 0 273 02672 0

'Geometry in Motion'
in J Rooney and J P Steadman (Eds.) (1987), **Principles of Computer-aided Design** Pitman/Open University, London, pp 285-295, ISBN: 0 273 02672 0

'Kinematic and Geometric Structure in Robot Systems'
in T O'Shea and M Eisenstadt (Eds.) (1984), **Artificial Intelligence: Tools, Techniques, and Applications**, Harper & Row, New York, pp 192-244, ISBN: 0-06-041894-X

'Manipulator Postures and Kinematic Assembly Configurations'
in J S Rao and K N Gupta (Eds.) (1984), **Proceedings of the Sixth World Congress of the International Federation for the Theory of Machines and Mechanisms**, Wiley Eastern, New Delhi, pp 1014-1020, ISBN: 0 85226 781 9, (with C F Earl)

'The Generation of Kinematic Structures for Planar Kinematic Chains'
in J S Rao and K N Gupta (Eds.) (1984) **Proceedings of the Sixth World Congress of the International Federation for the Theory of Machines and Mechanisms**, Wiley Eastern, New Delhi, pp 133-136, ISBN: 0 85226 781 9, (with C F Earl)

'The Mobility of a Graph'
in (1984) **Proceedings of the First Southeast Asian Graph Theory Colloquium**, Springer-Verlag, pp 135-149, (with R J Wilson)

'On the Principle of Transference'
in (1975) **Proceedings of the 4th World Congress of the International Federation for the Theory of Machines and Mechanisms**, Institution of Mechanical Engineers, pp 1089-1094

'On Obtaining the Velocity Motor of any Link in a General n-link Spatial Manipulator'
in (1975) **Proceedings of the Fourth World Congress of the International Federation for the Theory of Machines and Mechanisms**, Institution of Mechanical Engineers, pp 1083-1088

Papers in Refereed Journals

'Rotations of 4$n\pi$ and the Kinematic Design of Parallel Manipulators',
The Open Mechanical Engineering Journal, 2010, *4*, 86-92, Bentham Open, ISSN: 1874-155X/10

'Contortion and Formation Structures in the Mappings between Robotic Jointspaces and Workspaces',
Journal of Robotic Systems, Vol 20, No 7, July 2003, pp 341-353, Wiley, ISSN: 0741 2223, (with T K Tanev)

'A Review of a Family of Self-Deploying Tensegrity Structures with Elastic Ties',
The Shock and Vibration Digest, Vol. 32, No.2, March, 2000, pp 100-106, Sage Science, ISSN: 0583 1024, (with J Duffy, B Knight and C Crane)

'Reuleaux Pairs and Surfaces that cannot be Gripped',
International Journal of Robotics Research, **8,** No. 5, October, 1989, pp 79-87, Sage, ISSN: 0278 3649, (with J M Selig)

'Some Kinematic Structures for Robot Manipulator Designs',
Transactions of the American Society of Mechanical Engineers, Journal of Mechanisms, Transmissions, and Automation in Design, **105,** No.1, March, 1983, pp 15-22, ASME, (with C F Earl)

'On the Relationship between Rotations and Lorentz Transformations in Two, Three and Four Dimensions', *Environment and Planning B*, **6**, 1979, pp 413-439, Pion

'On the Three Types of Complex Number and Planar Transformations',
Environment and Planning B, **5**, 1978, pp 89-99, Pion

'A Comparison of Representations of General Spatial Screw Displacement',
Environment and Planning B, **5**, 1978, pp 45-88, Pion

'A Survey of Representations of Spatial Rotation about a Fixed Point',
Environment and Planning B, **4**, 1977, pp 185-210, Pion

'A Foundation for a Unified Theory of Analysis of Spatial Mechanisms',
Transactions of the American Society of Mechanical Engineers, Series B. Journal of Engineering for Industry, **97**, No.4, November, 1975, pp 1159-1165, ASME, (with J Duffy)

'Displacement Analysis of Spatial Six-Link 5R-C Mechanisms',
Transactions of the American Society of Mechanical Engineers, Series E. Journal of Applied Mechanics, **41**, No.3, September, 1974, pp 759-766, ASME, (with J Duffy)

'A Displacement Analysis of Spatial Six-Link 4R-P-C Mechanisms, Part 1: Analysis of RCRPRR Mechanism',
Transactions of the American Society of Mechanical Engineers, Series B. Journal of Engineering for Industry, **96**, No.3, August, 1974, pp 705-712, ASME, (with J Duffy)

'A Displacement Analysis of Spatial Six-Link 4R-P-C Mechanisms", Part 2: Derivation of Input-Output Displacement Equation for RCRRPR Mechanism',
Transactions of the American Society of Mechanical Engineers, Series B. Journal of Engineering for Industry, **96**, No.3, August, 1974, pp 713-717, ASME, (with J Duffy)

"A Displacement Analysis of Spatial Six-Link 4R-P-C Mechanisms, Part 3: Derivation of Input-Output Displacement Equation for RRRPCR Mechanism",
Transactions of the American Society of Mechanical Engineers, Series B. Journal of Engineering for Industry, **96**, No.3, August, 1974, pp 718-721, ASME, (with J Duffy)

'Notes on the Development of a Unified Theory for the Analysis of Spatial Mechanisms based on Spherical Trigonometry",
Advances in Mechanisms, 1973, Cranfield University, (with J Duffy)

Papers in Refereed Conferences

'Aspects of Clifford Algebra for Screw Theory',
5th International Workshop on Computational Kinematics CK2009, University of Duisburg-Essen, Germany, May 6-8, 2009

'Representing and Analysing the Kinematic Robustness of Robotic Planetary Systems',
10th ESA Workshop on Advanced Space Technologies for Robotics and Automation ASTRA2008, ESA/ESTEC, Noordwijk, Netherlands, November 11-13, 2008, (with J D Hobbs)

'On the Different Forms of Algebraic Eliminant',
International Workshop on Computational Kinematics CK2005, University of Cassino, Italy, May 4-6, 2005

‘An Initial Investigation into the Geometrical Meaning of the (Pseudo-) Inverses of the Line Matrices for the Edges of Platonic Polyhedra’,
Ball 2000 Symposium, University of Cambridge, UK, July 9-11, 2000, (with J H Lee and J Duffy)

‘Innovative Deployable Antenna Developments using Tensegrity Design’,
41st AIAA Structures Conference, Atlanta, USA, April 3-6, 2000, (with B F Knight, J Duffy, and C D Crane III)

‘Tensegrity and Compegrity Configurations in Anti-Prism Manipulator Platforms’,
10th World Congress on the Theory of Machines and Mechanisms, University of Oulu, Finland, June 20-24, 1999, (with J Duffy and J H Lee)

‘An Analysis of the Deployment of Tensegrity Structures using Screw Theory’,
IUTAM-IASS, Symposium on Deployable Structures: Theory and Applications, University of Cambridge, UK, September 6-9, 1998, (with J Duffy, B Knight, and C Crane)

‘The Spherical Geometry of Rotation Half-Angles and Quaternion n-ary Products’,
RoManSy 98, 12th CISM-IFToMM Symposium on Theory and Practice of Robots and Manipulators, Paris, France, July 6-9, 1998

‘An Investigation of some Special Motions of an Octahedron Manipulator using Screw Theory’,
Florida Conference on Recent Advances in Robotics, Melbourne, Florida, USA, March 26-27, 1998, (with J Duffy, B Knight, and C Crane)

‘Precision in Robot Manipulators’,
ICARCV '92, 2nd International Conference on Automation, Robotics and Computer Vision, Singapore, September 15-18, 1992

‘Micro-Robots and Macro-Robots: The Inner and Outer Limits of Robot Design’,
ICARCV '92, 2nd International Conference on Automation, Robotics and Computer Vision, Singapore, September 15-18, 1992

‘Manipulator Postures and Kinematic Assembly Configurations’,
6th World Congress of the International Federation for the Theory of Machines and Mechanisms, New Delhi, India, December 15-20, 1983, (with C F Earl)

‘The Generation of Kinematic Structures for Planar Kinematic Chains’,
6th World Congress of the International Federation for the Theory of Machines and Mechanisms, New Delhi, India, December 15-20, 1983, (with C F Earl)

‘The Mobility of a Graph’,
1st Southeast Asian Graph Theory Colloquium, Singapore, May 10-28, 1983, (with R J Wilson)

‘Some Kinematic Structures for Robot Manipulator Designs’,
17th ASME Mechanisms Conference, Washington DC, USA, September 12-15, 1982, (with C F Earl)

‘Line Configurations Associated with Spatial Manipulator and Gripper Systems’,
17th ASME Mechanisms Conference, Washington DC, USA, September 12-15, 1982, (with C F Earl)

‘On the Principle of Transference’,
4th World Congress of the International Federation for the Theory of Machines and Mechanisms, Newcastle-upon-Tyne, UK, September 8-13, 1975

‘A Foundation for a Unified Theory of Analysis of Spatial Mechanisms’,
13th ASME Mechanisms Conference, New York, USA, October 6-10, 1974, (with J Duffy)

‘On the Closures of Spatial Mechanisms’,
12th ASME Mechanisms Conference, San Francisco, USA, October 8-12, 1972, (with J Duffy)

Papers in Other Conferences

‘An Autonomous Moving Landscape’,
Greenwich 2000 - Digital Creativity, Greenwich, UK, January 13-15, 2000, (with P Margerison, and G Bellis)

NOMINATION FOR an IFToMM AWARD

1 **Name of Honor or Award:** **Dedicated Service**

2 **Date submitted:** **September 30, 2013**

3 **Full Name of Nominee:** **Dr Joe Rooney**

Nominee's Title/Position: **Associate Professor**

Nominee's Address:

Faculty of Mathematics,
Computing and Technology
The Open University
Walton Hall, Milton Keynes
MK7 6AA United Kingdom
j.rooney@open.ac.uk

Nominee's Citizenship: **British**

4 **Citation:**
(35-40 word summary of nominee's qualifications)

In addition to his outstanding scientific activity as documented by significant publications, Dr. Rooney has contributed significantly to IFToMM as Treasurer and Executive Council Officer from 2004-2011.

5 **Nominator(s):**
(Names, IFToMM affiliation/ connection of the person or persons suggesting the nomination)

Carlos S. López-Cajún,
Past IFToMM Secretary General (2008-2011)

6 **References:**
(Names and addresses of the individuals – at least three – acquainted with the nominee's qualifications and requirements of the award who have written the attached letters. Please be advised that the Executive Council will not consider more than five reference letters. It is the responsibility of the nominator to obtain all references and to append them to the nomination.)

Professor Jian S Dai
Chair in Mechanisms and Robotics
Head of Centre for Mechatronics and
Manufacturing Systems,
University of London,
Jian.Dai@KCL.ac.uk

Professor Tian Huang（黄田）
School of Mechanical Engineering
92 Weijin Road, Nankai District
Tianjin 300072, China,
tianhuang@tju.edu.cn

Prof. Veniamin Goldfarb
IFToMM Vice-President,
Director of Institute of Mechanics,
Izhevsk State Technical University
e-mail:
veniamingoldfarb@yahoo.com

School of Natural and Mathematical Sciences

Professor Jian S Dai

Chair in Mechanisms and Robotics
Head of Centre for Mechatronics and Manufacturing Systems

ASME Fellow, IMechE Fellow
King's College London
Strand, London WC2R 2LS
Tel: 020 7848 2321
Fax: 020 7848 2932
Email: Jian.Dai@KCL.ac.uk

KING'S College LONDON

University of London

29 July 2013

IFToMM Awards Committee

Dear Award Selection Committee:

Dr Joe Rooney:
IFToMM Dedicated Service Award

I have great pleasure in recommending Dr Joe Rooney for the **IFToMM Dedicated Service Award**. Dr Rooney was the treasurer and executive council officer of IFToMM for eight years and is currently a member of nominating committee for the executive council of IFToMM. Dr Rooney devoted himself to IFToMM service and kept IFToMM on a stable foundation financially as its treasurer for a long period.

Dr Rooney has been extremely enthusiastic and made a great contribution to the service and promotion of mechanism and machine science. During his term, he helped bring up the service of IFToMM and shore up the finance of IFToMM to a healthy finance situation. His period as the treasurer and the executive council officer contributed greatly to the service of IFToMM and to three IFToMM world congresses held in 2004, 2007 and 2011.

In the wider academic community, Dr Rooney contributed to many conferences and journals for over thirty years by serving as associate editor for journals in mechanical engineering sciences and in scientific committees of several prestigious international conferences. He established his excellent links with professionals in China, UK, Europe and USA, and promoted the research with many institutions.

Dr Rooney has wide research interest. His work on screw theory, on group theory and on Clifford algebra, has inspired many researchers worldwide. He also dedicated himself to the history of theory development and to the mathematical development in the mechanism community. His work on engineering design and innovation has been cited by many researchers and contributed greatly to the foundation of mechanism theory. With his outstanding research and excellent achievements, he published numerous important publications including well-recognised books. Many of his papers were constantly referenced by researchers across the world. His fruitful results from fundamental research and creative work made him successful in taking his ideas and theories to integrate geometry with kinematic motion. His contribution made his name linked to the theoretical development of the design theory and mathematical foundation of mechanisms and robotics.

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Dr Rooney has established himself worldwide as a true, dedicated and creative scientist in mathematics and engineering. He is a creative and internationally outstanding professional, a pioneer in mechanisms and engineering design.

Dr Joe Rooney's contributions to IFToMM in his capacity as a treasurer and member of the executive council and distinguished work in engineering won him international reputation and presented him an excellent position to receive the Award. In view of his excellent work and unique contribution to the engineering and science society and the organization, I have no hesitation in recommending Dr Joe Rooney for **IFToMM Dedicated Service Award**.

I will be glad to provide further input should you request.

Yours Faithfully,

Jian S Dai, **CEng, ASME Fellow, IMechE Fellow**
Chair in Mechanisms and Robotics

School of Natural and Mathematical Sciences

Professor Jian S Dai

Chair in Mechanisms and Robotics
Head of Centre for Mechatronics and Manufacturing Systems

ASME Fellow, IMechE Fellow
King's College London
Strand, London WC2R 2LS
Tel: 020 7848 2321
Fax: 020 7848 2932
Email: Jian.Dai@KCL.ac.uk

KING'S College LONDON

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I will be glad to provide further input should you request.

Yours Faithfully,

Jian S Dai, **CEng, ASME Fellow, IMechE Fellow**
Chair in Mechanisms and Robotics

LETTER OF SUPPORT

Re: Prof. J. Rooney IFToMM Dedicated Service Award

I respectfully submit my support to the IFToMM Dedicated Service Award to Prof. Joe Rooney.

It has been an honor to have served with him as a member of IFToMM Executive Council.

He did a very responsible duty of IFToMM Treasurer for 8 years (two terms).

I know prof. Rooney also as a well-known scientist, who's research interests and results relating to kinematics, dynamics and geometric design of robots, and other multi-body systems. His contribution to the MMS and IFToMM development is commendable.

Please, accept this letter as my petition for rewarding Prof. Rooney with the IFToMM Award.

Prof. Veniamin Goldfarb

IFToMM Vice-President,

Director of Institute of Mechanics,

Izhevsk State Technical University

e-mail: veniamingoldfarb@yahoo.com

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Nomination for an IFToMM Award

Name of Honor or Award: Dedicated Service Award

Date submitted: August 3, 2013

Full Name of Nominee: Carlos Lopez Cajun

Nominee's Title/Position: Professor at the Universidad Autónoma de Querétaro, Querétaro, Mexico.

Nominee's Address: School of Engineering, Universidad Autónoma de Querétaro, Querétaro, Mexico .

Nominee's Citizenship: Mexican

Citation: Next to his important technical contributions to MMS professor Lopez Cajun has been very active in IFToMM for years. His involvement was outstanding. In particular his membership of IFToMM's Executive Council (8 years of which 4 years as secretary) and in the organization of the 13th IFToMM World Congress in Mexico were of the utmost importance.

Nominator: Teun Koetsier, Associate professor, Department of Mathematics, VU University, Amsterdam, The Netherlands, E-mail: t.koetsier@vu.nl

(Past president fo IFToMM's Permanent Commission for History, Past secretary for Honors and Awards)

References:

1. **Professor Jorge Angeles, FRSC, James McGill Professor of Mechanical Engineering, McGill, Montreal, Canada (Honorary member of IFToMM)**
2. **Professor Fernando Viadero-Rueda, Professor of Mechanical Engineering, Universidad de Cantabria, Spain**
3. **Dr. Hanfried Kerle, Emeritus of Braunschweig Technological University, Germany (Past president of IFToMM's Permanent Commission for History)**

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Crucial qualifications:

- **Member of IFToMM''s Mexican Committee on MMS (1990-1994)**
- **Chair of IFToMM''s Mexican Committee on MMS (1994- 2002)**
- **Member of EC of IFToMM (2003-2007)**
- **Secretary of EC (2007-2011)**
- **In all his functions he performed in an outstanding way**

Brief biography: See the attached CV

McGill

Department of Mechanical Engineering
817 Sherbrooke Street West Montreal, QC, Canada H3A 0C3
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August 2nd, 2013

Prof. Marian Wiercigroch
The University of Aberdeen
King's College
Aberdeen AB24 3FX
United Kingdom

Re: Letter of Support for Prof. Carlos S. López-Cajún's nomination

Dear colleague Wiercigroch:

I have learned with great enthusiasm that Prof. Teun Koetsier is nominating our colleague Carlos S. López-Cajún to the IFToMM Dedicated Service Award. The purpose of this letter is to express my unqualified support to this nomination. I expand below on why I believe Prof. López-Cajún is extremely well positioned to receive this award.

The nominee's commitment to IFToMM spans several decades, first as a member of the Mexican Committee affiliated to IFToMM, then as its Chair, from 1994 to 2002. Shortly after Prof. López-Cajún stepped down as Chair of the Mexican Committee, he started a four-year term as Member of IFToMM's Executive Council, then continued, for four more years as its Secretary General. During the two terms in which the nominee served in the Executive Council, IFToMM saw a substantial growth in its activities, while keeping its established events, like the various conferences and workshops around the world. This remarkable activity displayed by IFToMM is the result of the coordinated work of many individuals working in different Member Organizations, but they need coordination. Here is where the role of the Executive Council becomes crucial. Professor López-Cajún played a key role in promoting and coordinating the efforts of the Executive Council and of IFToMM as a whole, which culminated with the organization of the IFToMM World Congress in 2011 in Guanajuato, a major cultural centre in Mexico and also geographically close to López-Cajún's residence, Querétaro.

The securing of Guanajuato as the venue for the 13th World Congress in Mechanism and Machine Science owes its success to the intensive and effective work displayed by the nominee both within Mexico and within the Executive Council. All in all, I have no hesitation whatsoever to state that Prof. López-Cajún is a genuine and dedicated IFToMM man, who deserves the IFToMM Dedicated Service Award. I remain

Yours sincerely

J. Angeles

Jorge Angeles, FRSC,
James McGill Professor of
Mechanical Engineering

UNIVERSIDAD DE CANTABRIA

Prof. Teun Koetsier
IFToMM Secretary for Awards and Honors

Department of Mathematics
Faculty of Science, Vrije Universiteit
De Boelelaan 1081
NL-1081HV Amsterdam, The Netherlands

Santander, July 23rd, 2013

Dear Prof. Koetsier,

Professor Carlos S. López-Cajún is a person with extensive experience in research and teaching. He has been involved since 1976 in the teaching of Mechanics of Machinery and Mechanisms courses at the Universidad Nacional Autónoma de Mexico (UNAM). From 1996 he has taught, besides, courses in mechanical vibrations, machine design and Robotics at the School of Engineering at Universidad Autónoma de Querétaro in Mexico. His research interests cover aspects of Mechanism and Machine Science and Robotic Mechanical Systems. Specific subjects of his interest are Mechanisms Design, Parallel Manipulators, and History of MMS. On these areas he has published several research papers in indexed international journals and chapters of books, and he has sent communications to numerous international conferences. He is co-author of "Optimization of Cam Mechanisms", book published by Kluwer AP, and translated to Japanese, and "Mecanismos", published in Spanish. He has been Associate Editor for the Mechanism and Machine Theory Journal, and he has served as reviewer for several international conferences and journals.

Professor López-Cajún has been very active in the last two decades in IFtoMM activities. From 1994 to 2002 he was Chairman of the Mexican-IFToMM Commission. In 1996 he collaborated in the creation of the IFToMM-TC on Transportation Machinery. From 2004 to 2007 he was a Member of the IFToMM Executive Council (EC) and from 2008-2011 he was Secretary General of the IFToMM EC. In 2011 he participated in the organization of the 13th World Congress held in Guanajuato, México.

E.T.S. de Ingenieros Industriales y de Telec. Departamento de Ingeniería Estructural y Mecánica.
Av. Los Castros, s/n 39005 Santander (Spain)

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He is member of the Academy of Engineering of Mexico, and was a Founder Member of the Mexican Society of Mechanical Engineering. At he same time he is member of the Ibero-American Federation for Mechanical Engineering (FeIbIM).

For the above reasons, I strongly recommend Prof. Carlos S. López-Cajún for the IFToMM Dedicated Service Award, in order to recognize his dedicated voluntary service marked by an outstanding performance, demonstrated effective leadership, prolonged and committed service, enthusiasm and faithfulness.

Yours sincerely,

Prof. Dr. Fernando Viadero-Rueda
President of the Spanish Association of Mechanical Engineering
Iftomm Chair Member Organization of Spain

E.T.S. de Ingenieros Industriales y de Telec. Departamento de Ingeniería Estructural y Mecánica.
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LETTER OF SUPPORT
in favour of Carlos S. López-Cajún
concerning the IFToMM Dedicated Service Award

Prof. Teun Koetsier from the Vrije Universiteit Amsterdam (The Netherlands) nominates **Prof. Carlos S. López-Cajún** from the Universidad Autónoma de Querétaro (Mexico) for the IFToMM Dedicated Service Award.

The IFToMM Dedicated Service Award is presented by IFToMM to honour persons who have provided dedicated voluntary service marked by outstanding performance, demonstrated effective leadership, prolonged and committed service, devotion, enthusiasm and faithfulness.

So far as I know, Prof. López-Cajún is working on the field of History of Mechanism and Machine Science (HMMS) since 2000, giving insights into typically Mexican mechanisms and machines of the past by lectures and publications. I met Prof. López-Cajún on many occasions of HMMS workshops and conferences since then in different countries, and I was every time deeply impressed by his profound knowledge in manufacturing machinery and kinematics.

During my HMMS chairmanship between 2007 and 2010 Prof. López-Cajún and me became friends, and he proved to be most reliable and helpful for me and my activities.

Prof. López-Cajún did not only a great service to the IFToMM Permanent Commission (PC) for HMMS (he is still member of this PC), but for IFToMM in general. From 1994 to 2002 he was Chairman of the Mexican IFToMM Member Organization; from 2004 to 2007 he was Member of the IFToMM Executive Council, and from 2008 to 2011 he acted as IFToMM Secretary General. Besides, he was Associate Editor of the IFToMM Journal of Mechanism and Machine Theory. In 2011, he was one of the main organizers of the 13th IFToMM World Congress in Guanajuato in his native country Mexico.

Because of his outstanding achievements in kinematics and machinery in the frame and to the welfare and international reputation of IFToMM, I strongly recommend to confer the IFToMM Dedicated Service Award to Prof. López-Cajún.

Braunschweig (Germany), July 15, 2013

Dr.-Ing. Hanfried Kerle
Past Chairman (2007-2010) IFToMM Permanent Commission
for the History of Mechanism and Machine Science

Curriculum Vitae of Carlos S. López-Cajún, profesor at the School of Engineering at the Universidad Autónoma de Querétaro, Mexico.

He was born in Campeche, Camp, México in 1948. He received the Mechanical Engineer Degree in 1969 from Universidad Nacional Autónoma de México (UNAM) in Mexico City. At the same University he completed a Master Program in Mechanical Engineering in 1977 and in 1982 he received his PhD from Case Western Reserve University. From 1969 to 1975 he worked in the oil and automotive industry. In 1986-1987 he was a Visiting Researcher at McGill University, Canada where he worked on mechanisms design and robotics. Since 1976 he taught courses on Mechanics of Machinery and Mechanisms at UNAM. From 1996 he has taught, besides, courses in mechanical vibrations, machine design and Robotics at the School of Engineering at Universidad Autónoma de Querétaro.

He is member of the Academy of Engineering of Mexico (AI), a Founder Member of the Mexican Society of Mechanical Engineering (SOMIM), and member of the Ibero-American Federation for Mechanical Engineering (FeIbIM). His research interests cover aspects of Mechanism and Machine Science (MMS) and Robotic Mechanical Systems. Specific subjects of his interest are Mechanisms Design, Parallel Manipulators, and History of MMS. On these areas he has authored several research papers published in indexed journals, chapters of books or proceedings of international conferences. He is coauthor of the books “Optimization of Cam Mechanisms”, published by Kluwer AP, and translated to Japanese, and “Mecanismos” (in Spanish).

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From 1994 to 2002 he was Chairman of the Mexican-IFToMM Commission. In 1996 he collaborated in the creation of the IFToMM-TC on Transportation Machinery. From 2004 to 2007 was a Member of the IFToMM Executive Council (EC) and from 2008-2011 he was Secretary General of the IFToMM EC. He was Associate Editor for the Journal of Mechanism and Machine Theory, and he has served as reviewer for several international conferences and journals. In 2011 he participated in the organization of the 13th World Congress held in Guanajuato, Guanajuato, México.

Currently, he is a Member of the Permanent Commission on HMM, and Member of IFToMM Nominating Committee.

Prof. Carlos S. López-Cajún
Facultad de Ingeniería, UAQ
Cerro las campanas s/n, Col. Centro,
76010 Querétaro, QRO. México
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Nomination for an IFToMM Award

Name of Award: Dedicated Service Award

Date submitted: August 3, 2013

Full Name of Nominee: Alexander Golovin

Nominee's Title/Position: Professor at Bauman Moscow State Technical University (BMSTU) in Moscow, Russia

Nominee's Address: Bauman Moscow State Technical University, 5 Baumanskaya Street, 105005 Moscow, Russia

Nominee's Citizenship: Russian

Citation: Next to his important technical contributions to MMS professor Golovin has been very active in IFToMM for many years. His involvement was outstanding. In particular his enthusiastic participation in all activities of IFToMM's Permanent Commission for History was of the utmost importance.

Nominator: Teun Koetsier, Associate professor, Department of Mathematics, VU University, Amsterdam, The Netherlands, E-mail: t.koetsier@vu.nl

(Past president fo IFToMM's Permanent Commission for History, Past secretary for Honors and Awards)

References:

1. **Professor Hong-Sen Yan, NCKU Chair Professor, Executive Vice President, National Cheng Kung University (NCKU), Taiwan (Honorary member of IFToMM)**
2. **Professor Francis Moon, Professor Emeritus of Mechanical Engineering, Cornell University, U.S.A (Member US National Academy of Engineering)**
3. **Professor Thomas Chondros, Associate professor, University of Patras, Greece (President of IFToMM's Permanent Commission for History)**

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Crucial qualifications:

- **In the period 1999-2007 member of IFToMM's Permanent Commission on History of Mechanism and Machine Science. As a member he was extremely active as the president (Thomas Chondros) and the two active past presidents (Teun Koetsier and Marco Ceccarelli) will confirm.**
- **Since 2001 member of the Russian National Committee for Mechanism and Machine Science**
- **In 2005 the organization of the 3d international workshop on the History of Mechanism and Machine Sciences in Moscow**
- **Since 1999 very active in stimulating cooperation between Russian and other specialists in MMS (both on the level of students and scholars)**
- **Of particular importance is also his involvement in making the huge model collection of Baumann Moscow State Technical University accessible to the outside world.**

Brief biography: See the attached CV

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Prof. H. S. YAN

July 24, 2013

Professor Teun Koetsier
Department of Mathematics, Faculty of Science
Vrije University
De Boelelaan 1081, NL-1081HV Amsterdam
The Netherlands

Re: Letter of support for
Prof. A. Golovin 's nomination for IFToMM Dedicated Service Award

Dear Prof Koetsier:

It is my pleasure to support the nomination of Professor Alexander Golovin for the **Dedicated Service Award** of IFToMM.

Prof. A. Golovin has been a faculty in the Department of Theory Machines and Mechanisms at Bauman Moscow State Technical University ever since 1968. His major research interests are theory of machines and mechanisms (TMM), mechanisms presses, and history of TMM. Due to his long term devotion, Dr. Golovin has earned his solid reputations as a professor in academic research. He is the (co)author of three books/one book-chapter and more than 100 papers in scientific transactions.

Prof. Golovin has been a very active member of the IFToMM Permanent Commission for the History of Mechanism and Machine Science since 1999. He was a member of IFToMM Permanent Commission for History of Mechanism and Machine Science in 1999-2007 and an observer after 2007. In addition, he serves as a member of Russian National TMM Committee from 2001.

In the past years, Prof. Golovin participated numerous IFToMM activities, such as IFToMM World Congresses (Oulu - 1999, Besancon- 2007, Guanajuato - 2011), Symposia (2000, 2004, 2008 - Cassino; 2001 - Bucharest; 2012 - Amsterdam), Conferences/workshops (2000 - Timisoara; 2004 - Dresden; 2005 - Moscow, Cassino; 2006 - Innsbruck; 2010 - Syracuse). Especially, he hosted a very successful workshop on History of Machines and Mechanisms in Moscow on 17-19 May 2005.

In summary, I have always been impressed by Professor Alexander Golovin's prolonged and dedicated service in IFToMM's PC for History. I hereby offer my strongest endorsement to support his nomination as a candidate for the Dedicated Service Award. If you have any questions, please do not hesitate to contact me.

Sincerely,

Hong-Sen Yan

Hong-Sen YAN, PhD
Honorary Member, IFToMM
Executive Vice President, National Cheng Kung Univ.
Chair Professor, Department of Mechanical Engineering
No. 1, University Road, Tainan 70101, Taiwan
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Professor Francis C. Moon
Joseph C. Ford Professor

(607) 255-1222 facsimile
e-mail: fcm3@cornell.edu

IFToMM Awards Committee

This letter is in support of the nomination of Professor Alexander Golovin of the Moscow State University (BMSU) for a meritorious service award. Professor Golovin is a distinguished scholar of machine and mechanism science. He had also been active in preserving the heritage of the BMSU mechanism model collection and has published a history of this collection in the Springer HMM series. He is a member of the History of Mechanism and Machine Science Commission of IFToMM and has been a steadfast supporter of the Commission's Symposia and Workshops. He lead the organization of the Moscow workshop of HMM in 2005. Professor Golovin has also been active in encouraging other Russian scholars of machine science to participate in the activities of IFToMM. I have also found him to be a most engaging and friendly colleague. I give him a most enthusiastic recommendation for this award.

Francis Moon
Professor Emeritus of Mechanical Engineering
Cornell University

Member US National Academy of Engineering

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ΕΛΛΗΝΙΚΟ ΤΜΗΜΑ ΤΗΣ ΔΙΕΘΝΟΥΣ ΕΝΩΣΗΣ ΘΕΩΡΙΑΣ ΜΗΧΑΝΩΝ ΚΑΙ ΜΗΧΑΝΙΣΜΩΝ

GREEK COMMITTEE OF THE INTERNATIONAL FEDERATION OF THEORY OF MACHINES AND MECHANISMS

www.iftomm.org

Thomas G. Chondros
Associate Professor
International Federation, Theory of Machines and Mechanisms
Greeek Committee Representative.

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http://www.mead.upatras.gr/
http://www.mech.upatras.gr/~chondros

Patras, July 10, 2013

Dear Professor Koetsier

Concerning Prof. Alexander Golovin's candidacy for an IFToMM Dedicated Service Award, I strongly support this nomination.

Professor Alexander Golovin provided IFToMM prolonged and dedicated voluntary service marked by outstanding performance, demonstrated effective leadership and committed service, devotion, enthusiasm and faithfulness.

His contribution to IFToMM's PC for History has been greatly appreciated by the IFToMM community. He truly deserves an IFToMM Dedicated Service Award.

Sincerely

Thomas G. Chondros

Thomas G. Chondros

Curriculum Vitae of Alexander Golovin, professor of Bauman Moscow State Technical University (BMSTU), DSc (Technical)

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Career

1939, March 3 – Date of birth
1962 – Graduated as a Mechanical Engineer from BMSTU (stamping technology)
1971 – Candidate in mechanical engineering
1968 – Assistant professor at BMSTU
1977 – Associate professor at BMSTU
1993 – Ph.D. at BMSTU in Mechanism and Machine Science
1993 – Full professor at BMSTU
1999 – 2007 – Member of IFToMM's Permanent Commission on History of Mechanism and Machine Science (from 2007 – observer)
From 2001 – Member of the Russian National Committee for Mechanism and Machine Science.

Research interests

Theory of Machines and Mechanisms, Mechanisms Presses, Engineering Education, History of Mechanism and Machine Science.

Publications

- Scheme Design of Multibar Linkages, - Moscow, BMSTU, 1996. - 96 p. (in Russian)
- Mechanisms Dynamics, - Moscow, BMSTU, 2001, 2006. – 192 p. (in Russian)
- Russian Models from the Mechanisms Collection of Bauman University (with co-author), Springer, 2007. – 238 p.
- Several papers in the series "Distinguished Figures in Mechanism and Machine Sciences" (volumes 1, 2, 3)
- More than 100 papers in Soviet and Russian scientific transactions, 28 papers in foreign transactions, including 14 in publishing houses Kluwer & Springer
- 5 inventions

Participation in international meetings (congresses, symposia, conferences, workshops):

- IFToMM World Congresses (Oulu – 1999, Bezanson – 2007, Guanajuato – 2011)
- Symposia on the History of Machine and Mechanism Science (2000, 2004, 2008– Cassino; 2001 – Bucharest; 2012 - Amsterdam)
- Conferences, workshops (2000 – Timishoara; 2004 – Dresden; 2005 – Moscow, Cassino; 2006 – Innsbruck; 2010 – Syracuse)
- Lectures on TMM questions in Cassino university (2008, 2009)

Organizational works

- Participation in conference organization committees' activities on History of Mechanism and Machine Sciences
- Participation in preparation and realization of a conference on the History of Technology in Russia (Kursk Technical University, 2002, 2003);

- Organization of the 3-d international workshop on History Mechanism and Machine Sciences in Moscow (2005)
- Organization of a visit of 3 Russian students to Cassino University (2008);
- Organization of a visit of 2 Italian students to BMSTU and the organization of a Russian-Italian student conference in BMSTU;
- Organization of several visits to Russia, including BMSTU, of foreign distinguished scholars in Mechanism and Machine Science (2002, 2003, 2005, 2009, 2011)

Awards:

- Award from IFToMM's Permanent Commission for History of MMS (17 May, 2005)
- IFToMM – Springer (June 19, 2011)

Professor Alexander Golovin
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Bauman Moscow State Technical University
Baumanskaya Str., 5
105005, Moscow
Russia

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