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LOYIMEE GOGOI

ACADEMIC CHRONICLES

PhD thesis title, Date of award

“A Study on Some Problems of Cooperative Games and its Application to Networks”, 04/09/2017

Guide’s Name, Institute/Organization/University

Prof. Surajit Borkotokey, Dibrugarh University, India

Thesis Examiners

MANIPUSHPAK MITRA, Professor, Economic Research Unit, Indian Statistical Institute, 203, Barrackpore Trunk Road, Kolkata-700 108, India &

GENJIU XU, Professor, Department of Applied Mathematics, Northwestern Polytechnical University, Xi’an, China

Qualified SLET, NE Region, 2015

MSc

Mathematics, Tezpur University, India, May 2012
Subjects: Pure and Applied Mathematics.

RESEARCH EXPERIENCES

1. January, 2018 to May, 2018

Queen’s Management School, Queen’s University, Belfast, UK: Visiting Scholar

2. May, 2017 to December, 2017

Sampling and Official Statistical Unit (SOSU), Indian Statistical Institute, Kolkata, India: Visiting Scientist

TEACHING EXPERIENCES

1. August, 2018 to -

Department of Mathematical Sciences, Tezpur University, India: Guest Faculty

PROFESSIONAL RECOGNITION/ AWARD/

PRIZE/CERTIFICATE/FELLOWSHIP RECEIVED

1. May, 2013 to April, 2017

Project fellow in UGC sponsored major research project in Dept of Mathematics, Dibrugarh University under the supervision of Prof. Surajit Borkotokey, Dept of Mathematics.

2. Awarded ‘Anundoram Borooah award, 2005’ for securing more than 60% in 10th standard examination.

PUBLICATIONS

(The authors are listed in alphabetical order)

JOURNAL ARTICLES

1. Borkotokey, S., L. Gogoi and D. Mukherjee, 2018, "Bi-cooperative Network Games: A Link Based Allocation Rule", *International Journal of Economic Theory*, 14(2), 103-128.
<https://onlinelibrary.wiley.com/doi/abs/10.1111/ijet.12148>
2. Borkotokey, S. and L. Gogoi, 2014, "Bi-cooperative Network Games: A Solution Concept", *Journal of Game Theory* 3(3), 35-40, SAP.
<http://article.sapub.org/10.5923.j.jgt.20140303.01.html>
3. Borkotokey, S., L. Gogoi and S. Sarangi, 2014, "A Survey of player-based and link-based allocation rules for Network games", *Studies in Microeconomics* 2(1), 5-26, SAGE.
<http://journals.sagepub.com/doi/abs/10.1177/2321022214522744>
4. Borkotokey, S., L. Gogoi and R. Kumar, 2013, "Bi-cooperative Network games: A Note", *Journal of Assam Academy of Mathematics* 6, 17-31.

UNDER REVIEW

1. Borkotokey, S., L. Gogoi, R. Kumar, 2018, "From the Shapley to Equal Division", *Journal of Economics*, Elsevier.

WORKING PAPERS

1. Borkotokey, S., S. Chakrabarti, R. Gilles, L. Gogoi and R. Kumar, 2018, "Network Games with Linear Probabilistic Graphs".
2. Borkotokey, S., D. Choudhary, L. Gogoi and R. Kumar, 2018, "Group Interactions in TU games : The k-lateral value".

BOOK CHAPTER

1. Borkotokey, S., L. Gogoi and D. Mukherjee, 2017, "Multilateral Interactions and Isolation in Middlemen driven Network", *Social Network Analytics*, Elsevier. (Accepted)

PAPER PRESENTATIONS IN SEMINARS/WORKSHOPS

1. Presented a paper entitled "Group Interactions in TU games : The k-lateral value" in "International Workshop on Game Theory and Networks" organized by Dibrugarh University, Dibrugarh, India during September 13-15, 2018.
2. Presented a paper entitled "From the Shapley Value to Equal Division : A class of values for TU games" in "Workshop on Network and Games" organized by Queen's University Belfast, UK during April 27-29, 2018.
3. Presented a paper entitled "Multilateral Interactions and Isolation in Middlemen driven Network" in "Mini Conference on Networks and Games" organized by Indian Statistical Institute, Kolkata during July 3-4, 2017.

4. Presented a paper entitled “Bi-cooperative Network Games: A Link-Based Allocation Rule” in “International Conclave on Foundations of Decision and Game Theory” organized by Indira Gandhi Institute of Development Research (IGIDR) and Indian Institute of Technology, Bombay, Mumbai during March 14-19, 2016.
5. Presented a paper entitled “Middlemen in TU Cooperative Games” in “International Workshop on Networks and Games” organized by Indian Institute of Technology, Ropar, Punjab during December 7-9, 2015.
6. Presented a paper entitled “A New Value for TU-Cooperative Games” in “Workshop on Indian Women and Mathematics” organized by Department of Mathematics, University of Delhi, Delhi, India, during January 2-4, 2015.
7. Presented a paper entitled “A New Value for Cooperative Games” in “International Seminar on Game Theory and its Applications to Social and Economic Networks”, organized by Department of Mathematics, Dibrugarh University, Dibrugarh, Assam-786004, India, during December 10-12, 2014.
8. Presented a paper entitled “Bi-cooperative Network Games: A Link-Based Solution Concept” in “National Conference on Trends in Mathematical Sciences Research”, organized by Department of Mathematics, Assam University, Silchar, Assam, India, during September 5-6, 2014.
9. Presented a paper entitled “The Position Value for Bi-cooperative Network Games” in “3rd International Conference on Frontiers of Mathematics & Applications” (ICFMA-2014), organized by Department of Mathematics, the University of Burdwan, Burdwan, West Bengal, India, during January 29-31, 2014.

PARTICIPATION IN WORKSHOPS/TRAININGS

1. Attended the workshop on “Game Theory and Mechanism Design”, organized by Indian Institute of Science, Bangalore during January 11-15, 2016.
2. Participated in “Mathematics Training and Talent Search Program” (MTTS), organized by Indian Institute of Technology, Guwahati funded by NBHM during May 26- June 21, 2008.

REFERENCES

1. Prof. Surajit Borkotokey, Dept of Mathematics, Dibrugarh University, India, sborkotokey@dibru.ac.in (Thesis supervisor)
2. Prof. Diganta Mukherjee, Sampling and Official Statistics Unit, Indian Statistical Institute, Kolkata, India, diganta@isical.ac.in
3. Dr. Rajnish Kumar, Senior Lecturer, Queen’s Management School, Riddel Hall, QUB, 185 Stranmillis Rd, Belfast BT9 5EE, rajnish.kumar@qub.ac.uk