

DST-Inria-CNRS Targeted Programme

Ongoing Projects

S.No	Title of the Project	Indian PI	French PI
1	IoT software Testing using Timed Automata	Prof. B. Srivathsan, Chennai Mathematical Institute, Chennai	Dr. Igor Walukiewicz, Bordeaux INP, Laboratoire Bordelais de Recherche en Informatique (LaBRI), UMR CNRS 5800, Talence
2	Looking Beyond Backpropagation in Deep Learning	Dr. Angshul Majumdar, Indraprastha Institute of Information Technology, New Delhi	Dr. Emilie Chouzenoux, Laboratoire Informatique Gaspard Monge (LIGM), UMR CNRS 8049, Université de Paris-Est Marne-la-Vallée
3	Modelling of Human Intention during Gait Rehabilitation	Dr. Neelesh Kumar, CSIR- Central Scientific Instruments Organisation (CSIO), Chandigarh	Dr. Ahmed Chemori, Laboratoire d'Informatique de Robotique et de Microelectronique de Montpellier (LIRMM) CNRS UMR 5506, University of Montpellier 2, Montpellier
4	Machine Learning for Network Analytics	Prof. Vivek S. Borkar, Indian Institute of Technology, Bombay, Mumbai	Dr. Konstantin Avrachenkov Inria Sophia Antipolis, Sophia Antipolis
5	Formal Verification of Autopilot Software for UAVs	Dr. Indranil Saha, Indian Institute of Technology- Kanpur	Dr. Goran Frehse, Laboratoire Verimag Université Grenoble Alpes, Grenoble
6	Games and Optimization for Energy Management with Stochasticity -GOEMS	Dr. Vikas Vikram Singh, Indian Institute of Technology –Delhi, New Delhi	Dr. Abdel Lisser, Laboratoire de Recherche en Informatique (LRI) Université Paris Sud, Paris

7	Efficient Quantitative Verification	Dr. S. Akshay, Indian Institute of Technology Bombay, Mumbai	Dr. Loïc H�lou�t, SUMO Team, Inria, Rennes
8	FogCity: QoS-Aware Resource Management for Smart Cities	Dr. Sudip Misra, Indian Institute of Technology-Kharagpur Dr. Subhas C. Misra, Indian Institute of Technology-Kanpur	Dr.Christine Morin, Inria Rennes- Bretagne Atlantique, Campus Universitaire de Beaulieu, Rennes
9.	Design Automation for Intelligent Vision Hardware in Cyber	Dr. Sharad Sinha, Assistant Professor, Indian Institute of Technology (IIT) Goa	Prof. Olivier Sentieys, INRIA and University Rennes 1 (INRIA Project Team: CAIRN), Rennes

Completed Projects

S.No.	Title of the Project	Indian PI	French PI
1	Personalized Mobility Services for Urban Travelers	Dr. Pushpeder Sigh, Indraprastha Institute of Information Technology Delhi (IIIT) Delhi, New Delhi	Dr. Animesh Pathak , Inria Rocquencourt / Dr.Rachit Agarwal
2	Basal Ganglia at Large	Dr. Bapi Raju, International Institute of Information Technology (IIIT)-Hyderabad/ University of Hyderabad Dr. V. Srinivasa Chakravarthy, Indian Institute of Technology- Madras, Chennai	Dr. Fr�d�ric Alexandre, Laboratoire Bordelais de Recherche en Informatique (LaBRI), UMR CNRS 5800, INRIA Bordeaux, Institute for Neurodegenerative Diseases (IMN) CNRS UMR 5293, Bordeaux
3	Algorithmic Verification of Real time systems	Dr. S.Krishna, Indian Institute of Technology Bombay,	Dr. Fr�d�ric Herbreteau, Institut Polytechnique de Bordeaux (IPB),

		Mumbai	Laboratoire Bordelais de Recherche en Informatique (LaBRI),CNRS UMR 5800, Talence
4	Optimal Inference in complex and turbulent data	Dr. Dharmendra Singh, Indian Institute of Technology -Roorkee	Dr. Hussein Yahia, GEOSTAT Team , Inria BSO, Talence
5	Evolving Communities and Information Spreading	Dr. Bivas Mitra, Indian Institute of Technology- Kharagpur	Dr. Jean Loup Guillaume, Université de La Rochelle, Pôle Sciences et Technologie Laboratoire L3i, La Rochelle
6	Post-stroke tele-neurorehabilitation using an operant conditioning paradigm under volitionally driven transcutaneous neuromuscular electrical stimulation	Dr. Uttma Lahiri, Indian Institute of Technology- Gandhinagar	Dr. Anirban Dutta, Inria -Sophia Antipolis, Montpellier
7	Automated Verification of concurrent Software	Prof. Madhav Mukund, Chennai Mathematical Institute, Chennai	Dr. Ahmed Boujjani, University Paris Diderot (Paris 7), and Institut Universitaire de France, Laboratoire d'Informatique Algorithmique Fondements et Applications (LIAFA), UMR CNRS 7089, Paris
8	A big data perspective for energy management in smart grids and dwelling.	Prof. Ujjwal Maulik, Jadavpur University, Kolkata Prof. Sangmitra Bandhopadya Indian Statistical Institute, Kolkata	Prof. Stephane Ploix , G-SCOP lab UMR CNRS 5272, Grenoble INP, Grenoble
9	Reflection Aware ICC Analysis Framework for Android Apps	Dr. Vijay Laxmi/Dr. Manoj Singh Gaur, Malaviya National Institute of Technology, Jaipur	Prof. Akka Zammari, Laboratoire Bordelais de Recherche en Informatique (LaBRI),UMR CNRS 5800, Université de Bordeaux, Talence

10	Modelling and control of mobile cooperating bionic arms	Prof. Pushparaj Mani Pathak, Indian Institute of Technology -Roorkee Prof. A.K.Samantaray, Indian Institute of Technology- Kharagpur	Prof. Rochdi Merzouki, Ecole Polytechnique Universitaire de Lille, Université de Lille1, Villeneuve d'Ascq
11	Study of Privacy, Accountability and Ownership in IoT	Dr. Manik Lal Das, Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar	Dr. Lafourcade Pascal, Univeristy Clermont Auvergne, Clermont-Ferrand
12	Polyhedral Compilation and Optimization for Data-Flow Programming Languages	Prof. Uday Kumar Reddy Bondhugula, Indian Institute of Science, Bengaluru	Prof. Labert Cohen, Ecole Polytechnique (PARKAS project Team) Ecole Normale Supérieure, Paris
13	Learning from BigData: First-Order methods for Kernels and Submodular functions	Prof. Chiranjib Bhattacharyya, Indian Institute of Science, Bengaluru	Prof. Francis Bach, SIERRA Project Team, Inria- Rocquencourt, Paris

DST-CNRS Targeted Programme (Ongoing Projects)

S.No	Title	Indian PI & Affiliation	French PI & Affiliation
1	Monitoring and modelling of the Mahanadi river basin in preparation of the SWOT	Dr. J. Indu Department of Civil Engineering Indian Institute of Technology Bombay	Dr.Stephane CALMANT Directeur de Recherche, Geophysicien Institut de Recherche pour le Developpement UMR 5566 LEGOS/ IISc Bangalore OMP/LEGOS, Toulouse
2	LOC approaches for Separation and Analysis of Exosome derived biomarker for Cancer Prognostic	Dr. Palash Kumar Basu Associate Professor Dept. of Avionics Indian Institute of Space Science and Technology Thiruvananthapuram	Dr Anne-Marie Gué Directrice de Recherche CNRS LAAS-CNRS, Toulouse
3	France-India Group for High Technology Equipments at Colliders	Prof. Somnath CHOUDHURY Indian Institute of Science, Bangalore	Prof. Yves SIROIS Directeur de Recherche de Classe Exceptionnelle (DRCE), LLR École polytechnique, Palaiseau
4	Deep Summarization Evaluation	Dr. Partha Pakray Assistant Professor (Gr-II) Department of Computer Science & Engineering National Institute of Technology Silchar (NIT Silchar), Silchar	Dr. Benoit Favre Associate Professor (Maître de Conférences) Département informatique et interactions, Aix-Marseille University, Laboratoire d'Informatique et Systèmes UMR 7020 / CNRS, Marseille