<table>
<thead>
<tr>
<th>Number</th>
<th>Project/Research Title</th>
<th>Funded/Sponsored by</th>
<th>Duration</th>
<th>Coordinator(s)/PI(s)</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Games and Optimization for Energy Management with Stochasticity-GOEMS</td>
<td>Indo-French Project by DST-CNRS</td>
<td>2018 - 2022</td>
<td>Prof. Vikas Vikram Singh</td>
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<td>2</td>
<td>Modelling and validation of dinucleotides in the human genome</td>
<td>IRIP 2019, IIT Delhi</td>
<td>2020 - 2021</td>
<td>Prof. Vikas Vikram Singh</td>
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<td>3</td>
<td>Establishment of CoE</td>
<td>IIAI NOKIA Sytemms and Solu</td>
<td>2020-2022</td>
<td>Prof. Niladri Chatterjee</td>
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<tr>
<td>4</td>
<td>Solving Problems for Network Optimization</td>
<td>Nokia</td>
<td>2018-2023</td>
<td>Prof. Niladri Chatterjee</td>
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<tr>
<td>5</td>
<td>Development of Predictive Data Analysis system using Artificial Intelligence</td>
<td>DGGJ, Ministry of Finance, Govt.</td>
<td>2019-2021</td>
<td>Prof. Niladri Chatterjee</td>
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<tr>
<td>6</td>
<td>Wavelet methods for PDEs on network</td>
<td>DST-serb, India</td>
<td>2019 - 2022</td>
<td>Prof. Mani Mehra</td>
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<tr>
<td>7</td>
<td>Multiscale Modeling, Simulation and Optimization for Energy, Advanced Materials and Manufacturing</td>
<td>Indo-German partnership (IGP)</td>
<td>2016-2020</td>
<td>Prof. Mani Mehra</td>
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<tr>
<td>8</td>
<td>Valuing Variable Annuities with Lifelong Guaranteans</td>
<td>DST-serb, India</td>
<td>2020 - 2023</td>
<td>Prof. S. Dharmaraja</td>
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<tr>
<td>9</td>
<td>Performance and Dependability Analysis and Development of Testbed of 5G Networks</td>
<td>DoT</td>
<td>2018-2021</td>
<td>Prof. S. Dharmaraja</td>
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<tr>
<td>10</td>
<td>Stochastic Analysis for Power Optimization in 5G Wireless Networks</td>
<td>Airtel</td>
<td>2021-2022</td>
<td>Prof. S. Dharmaraja</td>
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<td>11</td>
<td>Existence and multiplicity results for nonlocal elliptic and parabolic problems,</td>
<td>DST-serb, India</td>
<td>2020-2023</td>
<td>Prof. K. Sreenad</td>
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<td>12</td>
<td>DST-FIST project, Computational Lab for Mathematics, 2020-2023</td>
<td>DST-FIST</td>
<td>2020-2023</td>
<td>HOD Mathematics</td>
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<td>13</td>
<td>Average and Relevant Sampling in Reproducing Kernel subspace of Mixed Lebesgue Space</td>
<td>DST, India</td>
<td>2020-2023</td>
<td>Prof. Sivananthan Sampath</td>
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<tr>
<td>14</td>
<td>Indo-French project: Evolutionary PDEs: degeneracy, noise and approximations, 2018-2021 (co PI).</td>
<td>IFCAM (Indo-French)</td>
<td>2018-2021</td>
<td>Prof. Ananta Majee</td>
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<td>15</td>
<td>Crystallization and its applications on PL-Manifolds</td>
<td>Inspire Research Grant</td>
<td>2018-2023</td>
<td>Prof. Biplab Basak</td>
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<td>16</td>
<td>India Development Fund (IDF) of budget AUD 9.970</td>
<td>University of Sydney</td>
<td>2020-2021</td>
<td>Prof. Biplab Basak</td>
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<td>17</td>
<td>Fourier algebras on ultraspherical hypergroups</td>
<td>DST-serb</td>
<td>2020-2023</td>
<td>Prof. N. Shravan Kumar</td>
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<td>18</td>
<td>High Accuracy Computational Electrodynamics for Solving 21st Century Problems</td>
<td>VJRA grant, DST</td>
<td>2021-2024</td>
<td>Prof. Harish Kumar</td>
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<td>19</td>
<td>Stable Numerical Schemes for Relativistic Fluid and Plasma Flows,</td>
<td>DST-serb</td>
<td>2020-2023</td>
<td>Prof. Harish Kumar</td>
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<td>20</td>
<td>Image of locally finite and locally nilpotent derivations over the polynomial algebra</td>
<td>DST-serb</td>
<td>2020-2023</td>
<td>Prof. Surjeet Kaur</td>
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<td>21</td>
<td>Pseudo-differential Calculus on the Affine Group</td>
<td>DST-serb</td>
<td>2020-2023</td>
<td>Prof. Aparajita Dasgupta</td>
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<td>22</td>
<td>Functional Classes and Hyperbolic equations on Hilbert Spaces</td>
<td>DST-SERB</td>
<td>2020-2023</td>
<td>Prof. Aparajita Dasgupta</td>
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<td>23</td>
<td>Study of new types of continued fractions and applications</td>
<td>DST-SERB</td>
<td>2020-2023</td>
<td>Prof. Ritumoni Sarma</td>
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<td>24</td>
<td>Matching and Its Variations: Structural and Algorithmic Study</td>
<td>DST-SERB</td>
<td>2020-2023</td>
<td>Prof. B. S. Pandia</td>
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<td>26</td>
<td>Finite element methods for the variational inequalities of the second kind</td>
<td>DST-SERB</td>
<td>2019-2022</td>
<td>Prof. Kamana Porwal</td>
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<td>27</td>
<td>Some Approximation Theoretic Aspects of Fractal Functions on the Sierpinski Gasket and other Fractal Domains</td>
<td>DST-SERB</td>
<td>2020-23</td>
<td>Prof. P. Viswanathan</td>
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<td>28</td>
<td>Investigations on Multivariate Constrained Approximation with Fractal Functions and Its Applications in Geometric Modelling</td>
<td>DST-SERB</td>
<td>2021-24</td>
<td>Prof. P. Viswanathan</td>
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<td>29</td>
<td>Perturbation analysis of polynomial eigenvalue problem and their applications in control theory</td>
<td>Inspire Research Grant</td>
<td>2018-2021</td>
<td>Prof. Punit Sharma</td>
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<td>30</td>
<td>Robustness Analysis of Port-Hamiltonian Systems and their Applications in Power Network</td>
<td>IIT Delhi</td>
<td>2020-21</td>
<td>Prof. Debdip Ganguly</td>
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<td>31</td>
<td>Partial Differential equations on the hyperbolic space</td>
<td>Inspire Research Grant</td>
<td>2018-2023</td>
<td>Prof. Debdip Ganguly</td>
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