



## **Topics include but not limited to:**

- Computational Mechanics for Solids and Structures
- Computational Material Science and Engineering
- Computational Meso/Micro/Nano Mechanics
- Computational Non-Linear Mechanics
- Computational Structural Optimization
- Computational Techniques For Applications In Engineering, Science, and other Disciplines
- Computational Heat Transfer
- Computational Mathematics
- Computational Physics
- Computational Biology
- Computational Rheology
- Computational Uncertainties
- Computational Methods in Geomatics
- Meshless/Meshfree/Particle Methods
- Advanced Finite Element/Difference/Volume Methods
- Boundary Element Methods
- Molecular and Quantum Methods
- Multi-Scale Methods
- Inverse Problem and Optimization
- Health Monitoring
- Uncertainty Analysis
- Validation and Verification
- Development of Software for Numerical Simulation
- High-Performance Computing Techniques
- Big-Data and Data Intensive Computing Techniques
- Integrated Experimental and Computational Techniques
- BIM Computational Design
- Computation and Communication
- Others