Cyber-enabled Discovery and Innovation
Themes and Keywords

If the submit button doesn't automatically generate an email message save the data and email it to cdikey@nsf.gov

Please fill in this form to identify the CDI theme(s) and the CDI keywords that are most closely associated with your proposal. After you have filled in the form, simply click the Submit by Email button in the upper right corner to send the data to NSF. You will need to identify your 7-digit Proposal ID, so you have to wait until your proposal has been submitted by your Sponsored Research Office before you can fill in this form. Do not use the temporary ID initially assigned in FastLane.

Proposal ID

Date

CDI Proposal Type:

PI First Name

PI Last Name

Primary CDI Theme

Select any secondary CDI themes that apply to your proposal (optional)

- [ ] From Data to Knowledge
- [ ] Understanding Complexity
- [ ] Virtual Organizations

Enter up to three keywords that describe the topic of your proposal. You may select ONE keyword of your own that is not in the list (use the last drop down menu to select your own keyword). You will find the full list of keywords on the next page of this form.

keyword

keyword

keyword

You may enter your own keyword here, or you may select one from thelist.

Unless you are using the full Acrobat Pro software you will not be able to save the form using Acrobat Reader. Print a copy of the form for your own records.

If you have any problems using this form please contact the CDI Working Group by sending an email descrilbing the problem to CDI@nsf.gov

CDI Keyword List

activity/action recognition
astrophysics and cosmology
atomistic modeling, molecular dynamics
biological, chemical, physical oceanography
biomaterials, soft matter
biological and biologically-inspired computing
biology/computing shared principles
biomedical computing and engineering, biotechnology
brain science, neuroscience
CFD/turbulence
chemical reactions & processes, process modeling
civil infrastructure, critical infrastructure
climate & weather
coding theory
cognition and perception
communications & communication networds
compilers
computational complexity
control and regulatory systems
cryosphere
cyber physical systems
data analytics
data driven simulation, data assimilation
data representation and mining
data stream algorithms
design and analysis of algorithms
distributed, parallel and/or high performance computing
dynamical systems, non-equilibrium
economic behavior
ecosystems, environment, sustainability
educational assessment
educational research
elementary, secondary teaching and learning
emergent behavior, self-organization
energy
engineering design
enterprise systems
game theory
genomics, proteomics, molecular & cellular processes
geochemistry, geophysics, tectonics
geology, geobiology, geomorphology
green computing
hazard mitigation, disaster response, critical events
human behavior
human centered computing
human language and communication
hydrology, water
image & signal processing
information integration
information theory, coding, information networks
instructional tools or materials
inverse problems
knowledge and data engineering
knowledge discovery
language processing
large data sets
large scale simulation
linguistics
logic
machine learning, pattern recognition, artificial intel.
machine vision
marine geosciences
model reduction, coarse graining
multiscale models
nanosciences, nanotechnology
network theory, graph theory
networking
neural computation
numerical methods and computational mathematics
oceanography
operating systems
operations research, optimization, decision, game theory
organisms, organismal structure and development
pathways, receptors
performance and dependability modeling
plasma physics
polar research
power systems
privacy and security
public understanding of science, informal education
quantum computing
real-time embedded computing
research on virtual organizations
robotics
sensors and sensor networks
social impact of information technology
social networks, social systems
software design and analysis
space physics
spatial modeling, geometry, topology
statistical inference, time series
stochastic modeling, uncertainty quantification, risk
symbolic computing
systems biology, bioinformatics
temporal reasoning
transport phenomena
transportation systems, urban planning
undergraduate & graduate teaching and learning
verification and validation of software and hardware
video analysis
virtual organizations: infrastructure and development
visualization