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Careers in Mathematics



Math Rated Best Job

Recent WSJ article: 200 Best & Worst jobs.

- #1 Mathematician
- #2 Actuary
- #3 Statistician

THE WALL STREET JOURNAL.



JANUARY 6, 2009

Doing the Math to Find the Good Jobs

Mathematicians Land Top Spot in New Ranking of Best and Worst Occupations in the U.S.

Sarah Needleman, Wall Street Journal



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Did You Say Jobs?



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Actuarial Sciences

- Risk Management
- Insurance Policies
- Pooling Risks



Allstate
You're in good hands.





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Investment Sciences

- Math Finance
- Portfolio Management
- Financial Analysis



JPMorgan 

 **citibank**®

**Goldman
Sachs**



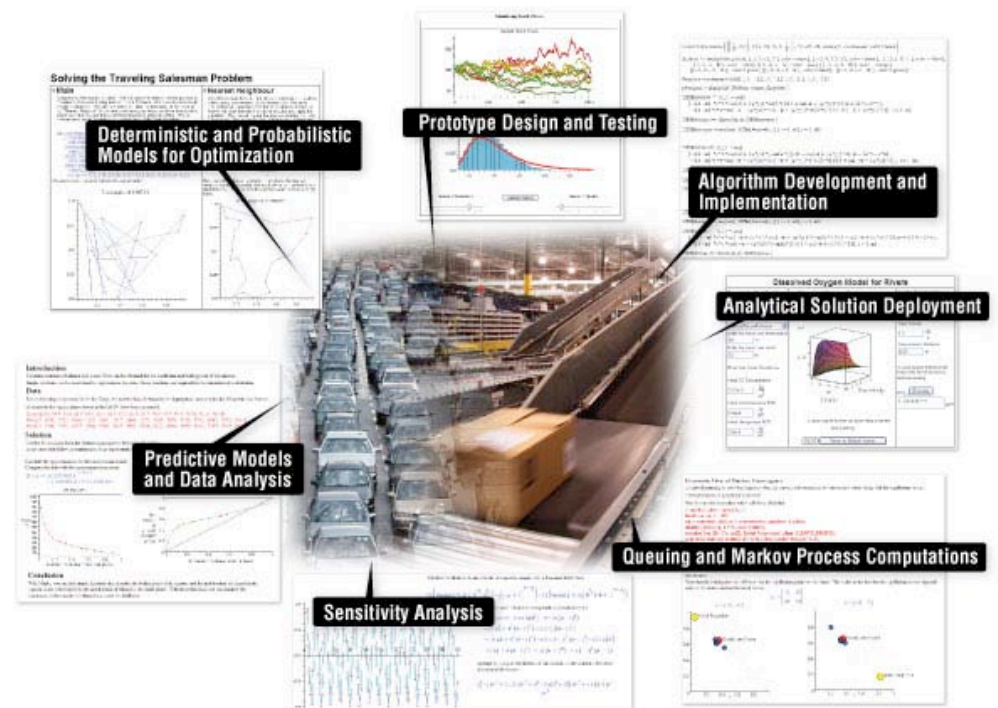


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Management Sciences

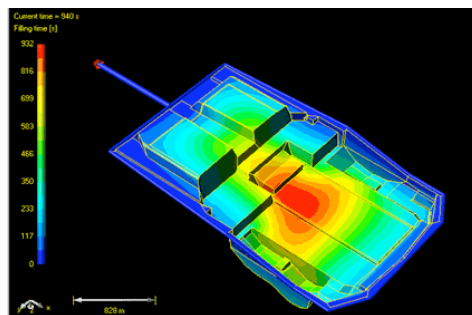
- Operations Research
- Supply Chain Management
- Military Logistics





Mathematics of Computation

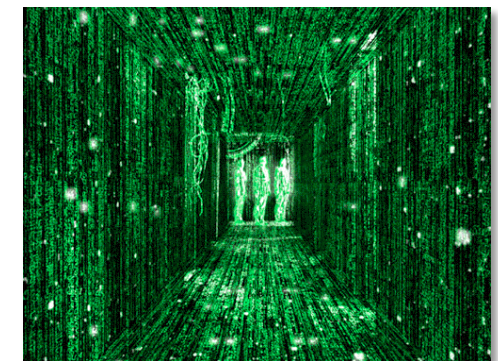
- High Performance Computing
- Bio-Informatics
- Simulation
- Numerical Analysis





Mathematics & Information Technology

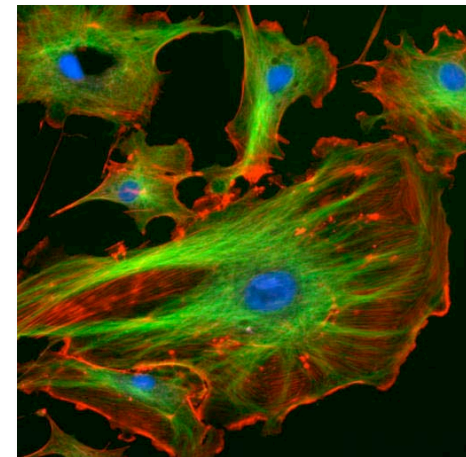
- Information Security
- Software Engineering
- Database Administration
- Systems & Network Analysis





Mathematical Modeling: Biology

- Epidemiology
- Population Dynamics
- Neuroscience
- Biological Networks





Mathematical Modeling: Earth Sciences

- Climatology
- Geophysics





Mathematical Modeling: Physics

- Fluid Dynamics
- Materials Science
- Acoustics
- Combustion
- Optics & Lasers



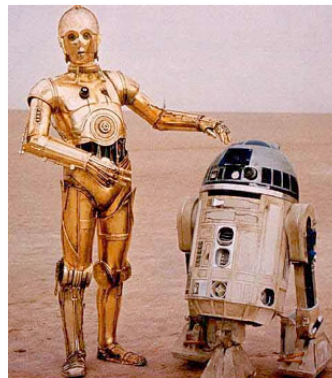
Honeywell





Mathematical Modeling: Engineering

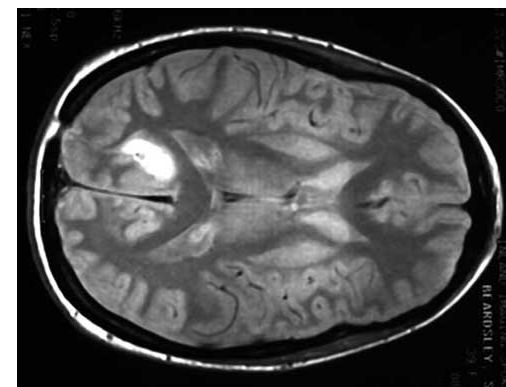
- Control Systems
- Communication Theory
- Autonomous Systems
- Signal Processing
- Robotics





Mathematics: Inverse Problems

- Scattering
- Remote Sensing
- Radar/Sonar/Ultrasound
- Medical Imaging



Raytheon
TOSHIBA



PHILIPS
SIEMENS

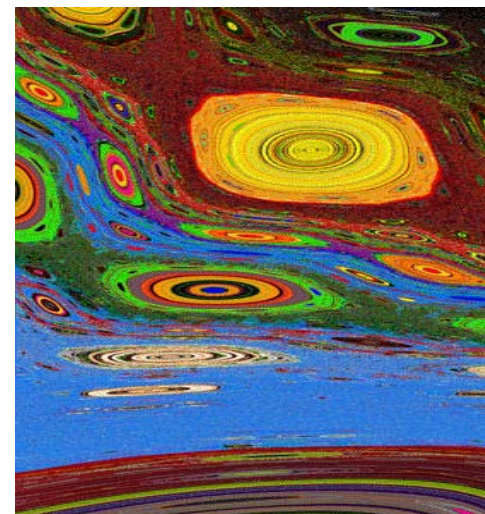


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Mathematics: Dynamics & Chaos

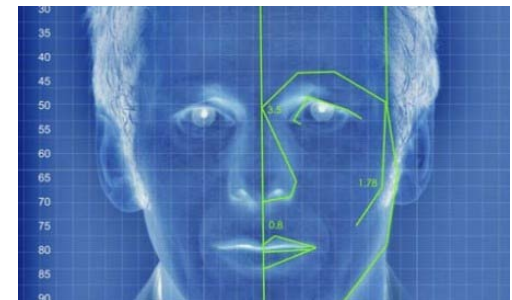
- Nonlinear Systems
- Pattern Formation
- Bifurcation Theory
- Nonlinear Waves
- Stochastic Models





Mathematics & Information

- Machine Learning & Artificial Intelligence
- Data Mining
- Information Retrieval



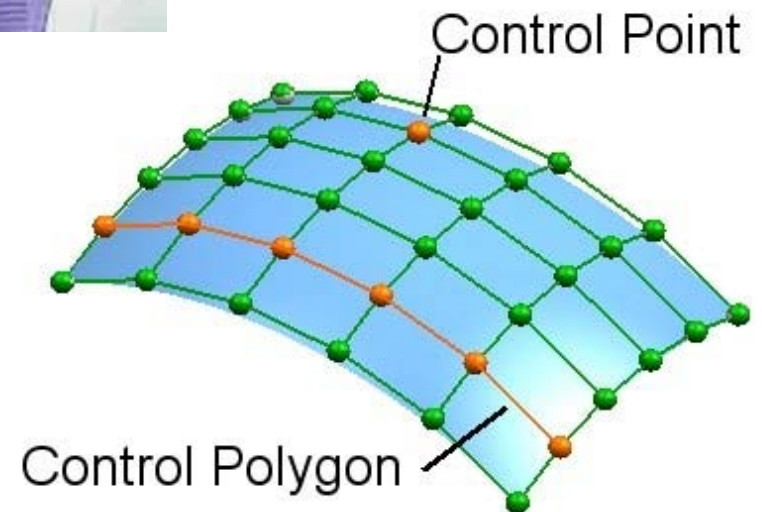
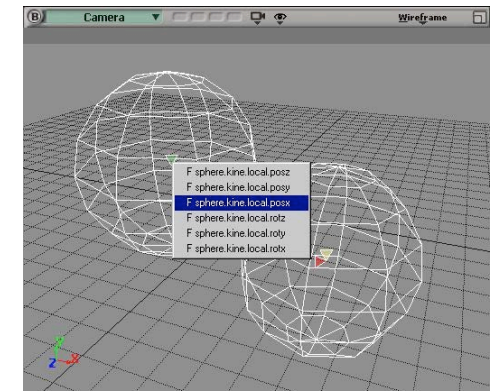


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Mathematics: Imaging Sciences

- Image Processing
- Graphics
- Animation





Mathematics & Codes

- Cryptography
- Steganography
- Digital Signatures





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Summary

- Math is Important/Useful/Rewarding
- 21st Century needs more mathematicians
- Numerous career opportunities
- Many applications

