Robotics & Automation
IEEE Field Award
Medal Design Committee
Medal Design Committee

• Rosalyn Snyder, chair
• Oussama Khatib
• Ken Goldberg
• Dick Volz
• Steve Hsia
• Wesley Snyder
• Peter Luh
• Kimon Valavanis
Design of Field Award Medals

- Front side is standard IEEE design
- Other side represents award
- Society provides concept to IEEE graphic design
- DEADLINE November 24, 2003
IEEE Technical Field Award Medals

- Control Award
- Electromagnetic Field Award
IEEE Field Award Medals

- Internet Award
- Robotics and Automation Award
- Other field awards feature a bust of the person for whom the award is named
Components of RAS medal

- Robot hand and human hand, interaction in some way
  - The “Michelangelo Creation hands” changed to have human and robot
  - Human-Robot handshake
  - Human & Robot working together, e.g. manipulating an object
Possible Mathematical bases

\[ \dot{X} = J\dot{\Theta} \]

\[ \tau = J^T F \begin{bmatrix} \cos \theta & -\sin \theta & dx \\ \sin \theta & \cos \theta & dy \\ 0 & 0 & 1 \end{bmatrix} \]
Components of medal

- Robot
Combinations of concepts

\[ \dot{X} = J \dot{\Theta} \]

\[ \tau = J^T F \]