2005 - 2009

A displacement metric for finite sets of rigid body displacements

```
@article{venkataramanujam:1463,
author = {Venkatesh Venkataramanujam and Pierre Larochelle},
title = {A Displacement Metric for Finite Sets of Rigid Body
Displacements},
publisher = {ASME},
year = {2008},
journal = {ASME Conference Proceedings},
volume = {2008},
number = {43260},
pages = {1463-1469},
url = {http://link.aip.org/link/abstract/ASMECP/v2008/i43260/p1463/s1},
doi = {10.1115/DETC2008-49554}
}
```

A Distance Metric For Finite Sets Of Rigid-body Displacements Via The Polar Decomposition

```
@article{larochelle:883,
author = {Pierre M. Larochelle and Andrew P. Murray and Jorge Angeles},
title = {A Distance Metric for Finite Sets of Rigid-Body Displacements
via the Polar Decomposition},
publisher = {ASME},
year = {2007},
journal = {Journal of Mechanical Design},
volume = {129},
number = {8},
pages = {883-886},
keywords = {singular value decomposition; design engineering;
geometry},
url = {http://link.aip.org/link/?JMD/129/883/1},
doi = {10.1115/1.2735640}
}
```

Approximate Motion Synthesis Of Spherical Kinematic Chains

```
@article{venkataramanujam:389,
author = {Venkatesh Venkataramanujam and Pierre Larochelle},
title = {Approximate Motion Synthesis of Spherical Kinematic Chains},
publisher = {ASME},
year = {2007},
journal = {ASME Conference Proceedings},
volume = {2007},
number = {48094},
pages = {389-397},
url = {http://link.aip.org/link/abstract/ASMECP/v2007/i48094/p389/s1},
doi = {10.1115/DETC2007-34372}
}
```

Collision Detection Of Cylindrical Rigid Bodies For Motion Planning

```
@inproceedings{20065210327602 ,
language = {English},
copyright = {Compilation and indexing terms, Copyright 2010 Elsevier
Inc.},
copyright = {Compendex},
title = {Collision detection of cylindrical rigid bodies for motion
planning},
journal = {Proceedings - IEEE International Conference on Robotics and
Automation},
author = {Ketchel, John and Larochelle, Pierre},
volume = {2006},
year = {2006},
pages = {1530 - 1535},
issn = {10504729},
address = {Orlando, FL, United states},
URL = {http://dx.doi.org/10.1109/ROBOT.2006.1641925}
}
```

Collision Detection Of Cylindrical Rigid Bodies Using Line Geometry

```
@article{ketchel:811,
author = {John S. Ketchel and Pierre M. Larochelle},
title = {Collision Detection of Cylindrical Rigid Bodies Using Line
Geometry},
publisher = {ASME},
year = {2005},
journal = {ASME Conference Proceedings},
volume = {2005},
number = {47446},
pages = {811-825},
url = {http://link.aip.org/link/abstract/ASMECP/v2005/i47446/p811/s1},
doi = {10.1115/DETC2005-84699}
}
```

Sphinxcam-proe Computer-aided Modeling & Manufacturing Of Spherical Mechanisms Via The Web

```
@inproceedings{20064810273126 ,
language = {English},
copyright = {Compilation and indexing terms, Copyright 2010 Elsevier
Inc.},
copyright = {Compendex},
title = {SphinxCAM-Pro|E: Computer-aided modeling  manufacturing of
spherical mechanisms via the web},
journal = {Proceedings of the ASME Design Engineering Technical
Conference},
author = {Larochelle, Pierre M. and Schuler, Jason M. and Ketchel, John
S.},
volume = {2006},
year = {2006},
address = {Philadelphia, PA, United states}
}
```

Computer-aided Manufacturing Of Spherical Mechanisms

```
@article{20065010303887 ,
language = {English},
copyright = {Compilation and indexing terms, Copyright 2010 Elsevier
Inc.},
copyright = {Compendex},
title = {Computer-aided manufacturing of spherical mechanisms},
journal = {Mechanism and Machine Theory},
author = {Ketchel, John S. and Larochelle, Pierre M.},
volume = {42},
number = {2},
year = {2007},
pages = {131 - 146},
issn = {0094114X},
URL = {http://dx.doi.org/10.1016/j.mechmachtheory.2006.09.007}
}
```

Computer-aided Modeling And Manufacturing Of Spherical Mechanisms Via A Novel Web Tool

```
@article{schuler:339,
author = {J. Schuler and J. Ketchel and P. Larochelle},
title = {Computer-Aided Modeling and Manufacturing of Spherical
Mechanisms via a Novel Web Tool},
publisher = {ASME},
year = {2007},
journal = {Journal of Computing and Information Science in
Engineering},
volume = {7},
number = {4},
pages = {339-346},
url = {http://link.aip.org/link/?CIS/7/339/1},
doi = {10.1115/1.2795307}
}
```

Effect Of Tracking Flat Reflector Using Novel Auxiliary Drive Mechanism On The Performance Of Stationary Photovoltaic Module

```
@article{kulkarni:351,
author = {Sudhir Kulkarni and Saurabh Tonapi and Pierre Larochelle and
Kunal Mitra},
title = {Effect of Tracking Flat Reflector Using Novel Auxiliary Drive
Mechanism on the Performance of Stationary Photovoltaic Module},
publisher = {ASME},
year = {2007},
journal = {ASME Conference Proceedings},
volume = {2007},
number = {43009},
pages = {351-356},
url = {http://link.aip.org/link/abstract/ASMECP/v2007/i43009/p351/s1},
doi = {10.1115/IMECE2007-42973}
}
```

Interactive Visualization Of The Coupler Surfaces Of The Spatial 4c Mechanism

```
@article{larochelle:1122,
author = {Pierre M. Larochelle and Agnes M. Agius},
title = {Interactive Visualization of the Coupler Surfaces of the
Spatial 4C Mechanism},
publisher = {ASME},
year = {2005},
journal = {Journal of Mechanical Design},
volume = {127},
number = {6},
pages = {1122-1128},
keywords = {bars; couplings; graphical user interfaces; mechanical
engineering computing},
url = {http://link.aip.org/link/?JMD/127/1122/1},
doi = {10.1115/1.2049067}
}
```

Projection Metrics For Rigid-body Displacements

```
@article{larochelle:1025,
author = {Pierre M. Larochelle and Andrew P. Murray},
title = {Projection Metrics for Rigid-Body Displacements},
publisher = {ASME},
year = {2005},
journal = {ASME Conference Proceedings},
volume = {2005},
number = {47446},
pages = {1025-1030},
url = {http://link.aip.org/link/abstract/ASMECP/v2005/i47446/p1025/s1},
doi = {10.1115/DETC2005-84698}
}
```

Self-collision Detection In Spatial Closed Chains

```
@article{ketchel:092305,
author = {John S. Ketchel and Pierre M. Larochelle},
title = {Self-Collision Detection in Spatial Closed Chains},
publisher = {ASME},
year = {2008},
journal = {Journal of Mechanical Design},
volume = {130},
number = {9},
eid = {092305},
numpages = {9},
pages = {092305},
url = {http://link.aip.org/link/?JMD/130/092305/1},
doi = {10.1115/1.2965363}
}
```

Systematic Process For Constructing Spherical Four Bar Mechanisms

```
@inproceedings{2006129777174 ,
copyright = {Compilation and indexing terms, Copyright 2010 Elsevier
Inc.},
title = {Systematic process for constructing spherical four-bar
mechanisms},
journal = {American Society of Mechanical Engineers, Design Engineering
Division (Publication) DE},
author = {Turner, Michael L. and Murray, Andrew P. and Perkins, David
A. and Larochelle, Pierre M.},
volume = {118 A},
number = {1},
year = {2005},
pages = {299 - 305},
address = {Orlando, FL, United states}
}
```

Unifying Assessment Of Freshman Design Teams With Team Project Management

```
@inproceedings{2005319271517 ,
language = {English},
copyright = {Compilation and indexing terms, Copyright 2010 Elsevier
Inc.},
title = {Unifying assessment of freshman design teams with team project
management},
journal = {ASEE Annual Conference and Exposition, Conference
Proceedings},
author = {Larochelle, Pierre},
year = {2005},
pages = {14791 - 14800},
address = {Portland, OR, United states}
}
```