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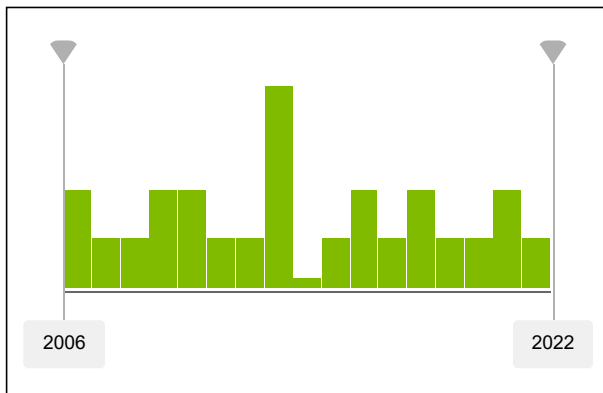
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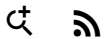
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Venkatesan Sundararajan

January 3-7, 2022 | AIAA SCITECH 2022 Forum

<https://doi.org/10.2514/6.2022-2134>

Abstract ▾



#### Abstract

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### Tradespace Exploration of Space System Architecture and Design for India's Shukrayaan-1, Venus Orbiter Mission

Venkatesan Sundararajan

November 15-17, 2021 | ASCEND 2021

<https://doi.org/10.2514/6.2021-4103>


Abstract ▾



#### Abstract

View Video Presentation: <https://doi.org/10.2514/6.2021-4103.vid>Indian Space Research Organization (ISRO) is planning a Venus Orbiter Mission, Shukrayaan-1 (शुक्रयान-१) to be launched by a GSLV Rocket in 2024 or 2026. Venus, often termed as the 'twin ...

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  **Gaganyaan Mission: Socio-technical Systems (STS) Design and Strategic Perspectives of India's Human Spaceflight Program**

Venkatesan Sundararajan

**11-15 & 19-21 January 2021 | AIAA Scitech 2021 Forum**


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### Abstract

Prime Minister Narendra Modi of India in his Independence Day address on August 15, 2018, committed the nation to achieve a Human Spaceflight by the 75th Anniversary of Indian Independence in 2022. Following this momentous political decision, the Indian ...

  **Exploring Model-Based Portfolio Design Optimization for Modern Combat Aircrafts Selection Utilizing MATE and EEA Methods**

Venkatesan Sundararajan

**June 15-19, 2020 | AIAA AVIATION 2020 FORUM**


<https://doi.org/10.2514/6.2020-3117>

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### Abstract

Tradespace Exploration (TSE) provides decision-makers an understanding of capabilities, gaps, and potential compromises facilitating the achievement of product/ system metric objectives across the operating environment. The Portfolio design selection ...

  **TASTE of Europe's JUICE Mission: Tradespace Analysis of Spacecraft Technology Evaluation (TASTE) for ESA's JUpiter ICy moons Explorer (JUICE)**

Venkatesan Sundararajan

**7-11 January 2019 | AIAA Scitech 2019 Forum**

<https://doi.org/10.2514/6.2019-0769>



  **Space System Architecture of India's Aditya-L1 Mission to study the Sun**

Venkatesan Sundararajan

**17-19 September 2018 | 2018 AIAA SPACE and Astronautics Forum and Exposition**



  **Overview and Technical Architecture of India's Chandrayaan-2 Mission to the Moon**

Venkatesan Sundararajan

**8-12 January 2018 | 2018 AIAA Aerospace Sciences Meeting**

<https://doi.org/10.2514/6.2018-2178>




  **Case Study of European Mars Missions utilizing System Design and Management Methods**

Venkatesan Sundararajan

**12 - 14 Sep 2017 | AIAA SPACE and Astronautics Forum and Exposition**

<https://doi.org/10.2514/6.2017-5324>




  **Evaluating NASA as a 'Heritage-based' Brand-oriented Network: A Stakeholder Value Perspective**

Venkatesan Sundararajan

**13 - 16 September 2016 | AIAA SPACE 2016**

<https://doi.org/10.2514/6.2016-5318>




  **ASTROSAT - Overview and Technical Architecture of India's First Space Observatory**

Venkatesan Sundararajan

**4-8 January 2016 | 54th AIAA Aerospace Sciences Meeting**


<https://doi.org/10.2514/6.2016-0477>



  **Stakeholder Value Network (SVN) Analysis for Indian Earth Observation Program**

Venkatesan Sundararajan



  
 **Mangalyaan - Overview and Technical Architecture of India's First Interplanetary Mission to Mars**

Venkatesan Sundararajan

**September 10-12, 2013 | AIAA SPACE 2013 Conference and Exposition**

<https://doi.org/10.2514/6.2013-5503>



  
 **Complex Project Interface and Technology Risk Assessment utilizing DSM Methods for Indian Space Exploration Missions**

Venkatesan Sundararajan

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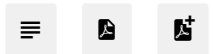


  
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Venkatesan Sundararajan

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 **A Case Study of Design, Performance and Economic Analysis of Light Sport Airplanes**


Venkatesan Sundararajan

**07 January 2013 - 10 January 2013 | 51st AIAA Aerospace Sciences Meeting including the New Horizons Forum and Aerospace Exposition**

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  **Indian Lunar Space Exploration Program - Chandrayaan I and II Missions**


Venkatesan Sundararajan

**11 September 2012 - 13 September 2012 | AIAA SPACE 2012 Conference & Exposition**

<https://doi.org/10.2514/6.2012-5324>



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  **Utilization of Space Assets for Assessing Global Climate Change - A Case Study of International Missions**


Venkatesan Sundararajan

**27 September 2011 - 29 September 2011 | AIAA SPACE 2011 Conference & Exposition**

<https://doi.org/10.2514/6.2011-7224>



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  **Economic and Performance Analysis of Indian Space Transportation Systems**


Venkatesan Sundararajan

**30 August 2010 - 02 September 2010 | AIAA SPACE 2010 Conference & Exposition**

<https://doi.org/10.2514/6.2010-8708>



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  **Strategic Perspectives and Technical Architecture Overview of Indian Space Exploration Missions**


Venkatesan Sundararajan

**04 January 2010 - 07 January 2010 | 48th AIAA Aerospace Sciences Meeting Including the New Horizons Forum and Aerospace Exposition**

<https://doi.org/10.2514/6.2010-973>



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  **A Case Study of Interplanetary Missions for Evaluating International Partnerships**

Venkatesan Sundararajan

14 September 2009 - 17 September 2009 | AIAA SPACE 2009  
Conference & Exposition

<https://doi.org/10.2514/6.2009-6763>



-  **Co-Opetition: The Emerging Trend In Global Space Exploration Strategy**

Venkatesan Sundararajan

05 January 2009 - 08 January 2009 | 47th AIAA Aerospace Sciences Meeting including The New Horizons Forum and Aerospace Exposition

<https://doi.org/10.2514/6.2009-658>




-  **European Space Policy & Economics - An Intergovernmental Perspective Analysis**

Venkatesan Sundararajan

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<https://doi.org/10.2514/6.2008-7717>




-  **Beyond Space Applications: A Case Study of Indian Space Science Missions**

Venkatesan Sundararajan

18 September 2007 - 20 September 2007 | AIAA SPACE 2007 Conference & Exposition

<https://doi.org/10.2514/6.2007-6007>




-  **Emerging Space Powers - A Comparative Study of National Policy and Economic Analysis for Asian Space Programs (Japan, China, and India)**

Venkatesan Sundararajan

19 September 2006 - 21 September 2006 | Space 2006

<https://doi.org/10.2514/6.2006-7207>



  **International Missions to the Moon: Space Exploration Goals, Programs and Economics**

Venkatesan Sundararajan

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