

Instrument Deployment For Mars Rovers Nasa

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Abstract and Figures Future Mars rovers, such as the planned 2009 MSL rover, require sufficient autonomy to robustly approach rock targets and place an instrument in contact with them. It took the...

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developing the robust autonomous instrument deployment capability needed for Mars rover missions. Our rover, K9, has demonstrated fully autonomous deployment of a microscopic camera against a rock in a relatively complex outdoor test environment (Figure 3). Figure 3 K9 rover approaches a rock target in the NASA

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Future Mars rovers, such as the planned 2009 MSL rover, require sufficient autonomy to robustly approach rock targets and place an instrument in contact with them. It took the 1997 Sojourner Mars rover between 3 and 5 communications cycles to accomplish this. This paper describes the NASA Ames approach to robustly accomplishing single cycle instrument deployment, using the K9 prototype Mars rover.

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[Single-Cycle Instrument Deployment for Mars Rovers](#)

Instrument deployment for Mars rovers . By L Pedersen, M. Bualat, C. Kunz, S. Lee, R. Sargent, R. Washington and A. Wright. Abstract. require sufficient autonomy to robustly approach rock targets and place an instrument in contact with them. It took the 1997 Sojourner Mars rover between 3 and 5 communications cycles to accomplish this.

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The Instrument Deployment Camera (IDC) is a color camera based on the Mars Exploration Rover and Mars Science Laboratory navcam design. It is mounted on the Instrument Deployment Arm and images the instruments on the lander's deck and provides stereoscopic views of the terrain surrounding the landing site.

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The robot may look like NASA's well-known rover, Curiosity, currently roving around on Mars but this bot has a whole new suite of instruments, cameras and two microphones on board.

[Mic check: Listen to NASA's Mars rover traveling through space](#)

The limited movement of the robotic Instrument Deployment Arm (IDA) means that the seismometer and HP 3 penetrator must be positioned in front of the lander, within a crescent-shaped area approximately 3 m long and 2 m wide. The area available for the HP 3 instrument (3.4 m²) is bigger than that allocated to the SEIS instrument (3.1 m²).

[Instruments Deployment - SEIS / Mars InSight](#)

The Mars Science Laboratory Entry Descent and Landing Instrument is called MEDLI. MEDLI measured the heating and atmospheric

pressure changes that occurred during the descent to help determine the effects on different parts of the spacecraft.

~~Summary | Instruments — NASA's Mars Exploration Program~~

Instrument Deployment For Mars Rovers It took the 1997 Sojourner Mars rover between 3 and 5 communications cycles to accomplish this. This paper describes the NASA Ames approach to robustly accomplishing single cycle instrument... (PDF) Instrument deployment for Mars Rovers At NASA's Ames Research Center (ARC), we are developing the robust

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~~InSight — Wikipedia~~

Science instruments are state-of-the-art tools that acquire information about the martian environment. They include: Cameras. Panoramic Camera (Pancam) Microscopic Imager (MI) See also the engineering cameras: Hazcams and Navcams; Spectrometers. Miniature Thermal Emission Spectrometer (Mini-TES) Mössbauer Spectrometer (MB)

~~Mars Exploration Rover Mission: The Mission~~

It took the 1997 Sojourner Mars rover between 3 and 5 communications cycles to accomplish this on rocks. This paper describes the NASA Ames approach to robustly accomplishing single cycle instrument deployment, using the K9 prototype Mars rover. An offboard 3D site model is used to select science targets for the rover.

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A two-metre-long robotic arm. InSight has a sophisticated robotic arm designed for a single purpose: to deploy with the greatest precision and safety possible the mission's two main instruments, namely the SEIS seismometer and the HP 3 heat flow sensor. 3D graphic representation of the IDA in the process of lifting the SEIS seismometer (© NASA). Contrary to what you might think, even once firmly on its three legs, the landing phase is still not over for InSight.

~~IDA Robotic Arm — SEIS / Mars InSight~~

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ing rover mobility and instrument deployment tests. Mars Soil Simulant-D is used for realistic wheel traction and dig-ging mechanics. A system of Vicon motion tracking cam-eras provides accurate position and orientation data for study-ing rover and arm movement and instrument deployment. A test rig has been constructed within the PATLab em-

~~An Instrument Deployment Arm Study for the ExoMars Rover ...~~

The deployment and placement of these instruments onto the Martian surface (both soil and rock targets) is controlled by the 5 degree-of-freedom Instrument Deployment Device (IDD). The IDD represents the most dexterous robotic manipulator ever flown to another lunar or planetary surface. 10-7803-8870-4/05/\$20.00© 2005 IEEE

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