The 25th Workshop on JAXA Astrodynamics and Flight Mechanics
[アストロダイナミクスシンポジウム講演後刷り集]

国立研究開発法人　宇宙航空研究開発機構宇宙科学研究所
Institute of Space and Astronautical Science, Japan Aerospace Exploration Agency (JAXA)(ISAS)

開催日：2015年7月27日-28日

資料番号	プログラム No.	タイトル（リンク）	著者名
SA6000054000		The 25th Workshop on JAXA Astrodynamics and Flight Mechanics	Institute of Space and Astronautical Science, Japan Aerospace Exploration Agency(JAXA)(ISAS)
SA6000054001	A-1	Mobility performance and stress distribution generated beneath a wheel on loose soil for a wheeled rover	Higa, Shoya・Nagaoka, Kenji・Yoshida, Kazuya
SA6000054002	A-2	Mobility Analysis of Ground-Gripping Robot like a Rock Climber for Minor Body Exploration	Yuguchi, Yudai・Nagaoka, Kenji・Yoshida, Kazuya
SA6000054003	A-3	Jumping Rover Mechanism Considering Surface Properties of Celestial Body	Maeda, Takao
SA6000054004	A-4	Operation of a Lunar Rover with a Redundant Microcontroller and Multiple Camera Architecture	Walker, John・Britton, Nathan・Yoshida, Kazuya
SA6000054005	Lunch Time Lecture	Square Integral Norm Computation by Routh Table	Manabe, Shunji
SA6000054006	A-5	Analysis of plume's in uence on MASCOT, the lander of HAYABUSA 2	Ikemoto, Kazuaki・Tsuda, Yuichi
SA6000054007	A-6	Design of a Lander for In-Situ Investigation and Sample-Return from a Jupiter Trojan Asteroid on the Solar Power Sail Mission	Boden, Ralf C.・Mori, Osamu・Saiki, Takanao・Kawaguchi, Jun'ichiro Solar Power Sail Study Group
SA6000054008	A-7	Prediction of Rover Energy Consumption with Self-supervised Approach	Otsu, Kyohei・Kubota, Takashi
SA6000054009	A-8	Active Suppression of Disturbance Induced by Satellite-Mounted Instruments Using Magnetic Bearing Actuator	Kanzawa, Takuya・Shigeto, Shuhei・Yamanaka, Koji
SA6000054010	A-9	Hall Thruster System Design for High Delta-V Missions	Funaki, Ikkoh・Iihara, Shigeyasu・Hall Thruster Team
SA6000054011	A-10	探査ミッションに用いる分離カメラシリーズの開発	澤田, 弘崇・小川, 和律・白井, 慶・三桝, 裕也・DCAM3開発チーム
SA6000054012	A-11	Retro-directive and antenna technology for deep space probe	Hasegawa, Naoki・Kishimoto, Takeru・Ju, Hyeonjae・Yoshida, Satoshi Miyachi, Akihira・Matsunoshita, Makoto・Nishikawa, Kenjiro・Mori, Osamu Kato, Hideki・Kawaguchi, Junichiro・Kawasaki, Shigeo
SA6000054013	A-12	A Study on V-Infinity Leverage Maneuver (VILM) with Low Thrust Propulsion System	Ogura, Satoshi・Kawakatsu, Yasuhiro
SA6000054014	A-13	Global Search for Mass-Optimal Low-Thrust Transfers to the Moon	Oshima, Kenta・Campagnola, Stefano・Yanao, Tomohiro
SA6000054015	A-14	Robust Optimal Control for Low-Thrust Trajectory Design with Thrust Uncertainty	Ozaki, Naoya・Funase, Ryu
SA6000054016	A-15	Earth Escape from a Sun-Earth Halo Orbit Using the Unstable Manifold and Lunar Gravity Assists	Chen, Hongru・Kawakatsu, Yasuhiro・Hanada, Toshiya
SA6000054017	A-16	Sampling Scenario for the Trojan Asteroid Exploration Mission	Matsumoto, Jun・Aoki, Jun・Oki, Yusuke・Yano, Hajime
SA6000054018	A-17	Solar Power Sail Trajectory Design for Jovian Trojan Exploration	Saiki, Takanao・Mori, Osamu・Kawaguchi, Junichiro
SA6000054019	A-18	Future applications of atmospheric-entry system using flexible aeroshell for planetary exploration	Yamada, Kazuhiko
SA6000054020	A-19	Comprehensive Space Mission Analysis via Many-Objective Optimization	Schlueter, Martin・Watanabe, Takeshi・Tatsukawa, Tomoaki・Oyama, Akira
SA6000054021	A-20	jTOP, a free, multi-purpose trajectory optimization program	Campagnola, Stefano
SA6000054022	A-21	Multi-Objective Optimization of Interplanetary Space Mission Trajectories	Yam, Chit Hong・Schlueter, Martin・Watanabe, Takeshi・Oyama, Akira・Kawakatsu, Yasuhiro
SA6000054023	B-1	Experimental Study on Deployment of Spin Type Square-Shaped Solar Sail with Buckling Phenomenon of Membrane	Kinoshita, Hiroyuki・Mori, Osamu・Shirasawa, Yoji・Inoue, Ryota・Mizumori, Tsukasa Tsunoda, Hiroaki

SA6000054024	B-2	Asymmetric Deployment Analysis of Spin-type Solar Power Sail with Improved Multi-Particle Method	Kikuchi, Junji・Shirasawa, Yoji・Mori, Osamu
SA6000054025	B-3	A Study on control of curvature of multilayer by sputter deposition	Nakamura, Takuma・Kobayashi, Nobuyuki・Mori, Osamu・Shirasawa, Yoji Kikuchi, Junji・Teramoto, Yuki
SA6000054026	B-4	A Study on the Shape Prediction of the Spin Type Membrane Surface Structures by Bending Stiffness	Kitao, Satoshi・Mori, Osamu・Shirasawa, Yoji
SA6000054027	B-5	Progress of Re-entry Nano-Satellite with Gossamer Aeroshell and GPS/Iridium deployed from ISS (EGG)	Imamura, Osamu・Suzuki, Kojiro・Abe, Takashi・Akita, Daisuke Nagata, Yasunori・Takahashi, Yusuke・Yamada, Kazuhiko
SA6000054028	B-6	Mission Analysis for Comet Observation : PROCYON	Kawabata, Yosuke・Ogura, Satoshi・Ozaki, Naoya・Sugimoto, Yoshihide Yam, Chit Hong・Campagnola, Stefano・Sarli, Bruno・Chen, Hongru Ariu, Kaito・Kawakatsu, Yasuhiro・Funase, Ryu・Tomiki, Atsushi
SA6000054029	B-7	Hazardous NEO Mitigation: Mission Analysis and Campaign Planning	Sugimoto, Yohei・Yoshikawa, Makoto
SA6000054030	B-8	Overview of the Global Trajectory Optimization Competition Problems	YAM, Chit Hong・Campagnola, Stefano・Kawakatsu, Yasuhiro
SA6000054031	B-9	Trajectory Estimation of the "Hayabusa" Spacecraft around Itokawa Using Gaskell Shape Model	Miura, Akira・Yamamoto, Yukio・Yoshikawa, Makoto
SA6000054032	B-10	Theory of Interplanetary Parking Method and Application to Dual Launch Trajectory Design of Deep-Space Explorer	Ikenaga, Toshinori・Utashima, Masayoshi・Ishii, Nobuaki・Kawakatsu, Yasuhiro Yoshikawa, Makoto・Funaki, Ikkoh・Iwata, Takahiro
SA6000054033	B-11	Mult-objective optimization and data mining of a space trajectory for DESTINY	Watanabe, Takeshi・Tatsukawa, Tomoaki・Yamamoto, Takayuki・Oyama, Akira Kawakatsu, Yasuhiro
SA6000054034	B-12	Study on Stabilization of Explicit Scheme of Numerical Simulation for Contact Dynamics of Flexible Structure	Miyazaki, Yasuyuki
SA6000054035	B-13	Experimental discussions on reduced order flexible multibody system	Kobayashi, Nobuyuki・Sugawara, Yoshiki
SA6000054036	B-14	High-Speed Observation for Deployment of Super-Tether in Inverse-Origami Method	Fujii, Hironori A.・Sugimoto, Yohei・Kojima, Hirohisa・Watanabe, Takeo Kusagaya, Tairo
SA6000054037	B-15	Brazil Nut Effect on Regolith Distribution of Rubble Pile Asteroids	Chujo, Toshihiro・Mori, Osamu・Yano, Hajime・Kawaguchi, Jun'ichiro
SA6000054038	B-16	Searching Radio Wave and Acquiring Telemetry and Ranging Data of IKAROS	Mori, Osamu・Mimasu, Yuya・Taniguchi, Sho・Takeuchi, Hiroshi Kikuchi, Shota・Tomiki, Atsushi・Kato, Hideki・Ogawa, Naoko・Shirasawa, Yoji
SA6000054039	B-17	Electric-Delta V Earth Gravity Assist Phase Operation of Hayabusa2	Tsuda, Yuichi
SA6000054040	B-18	Analysis for Nutation in One Wheel Control Mode of HAYABUSA2	Koyama, Ryota・Mimasu, Yuya・Saiki, Takanao・Tsuda, Yuichi
SA6000054041	B-19	Attitude Control of Hayabusa2 using Sun-Tracking Motion under Solar Radiation Pressure	Akatsuka, Kosuke・Tsuda, Yuichi・Mimasu, Yuya・Ono, Go・Kawaguchi, Jun'ichiro
SA6000054042	B-20	Attitude Control of Hayabusa2 by Solar Radiation Pressure	Mimasu, Yuya・Akatsuka, Kosuke・Ono, Go・Ogawa, Naoko・Terui, Fuyuto Saiki, Takanao・Tsuda, Yuichi
SA6000054043	B-21	Angular Momentum Control by Using Solar Radiation Pressure for 50-kg-class Spacecraft PROCYON	Ito, Takahiro・Ikari, Satoshi・Oguri, Kenshiro・Fujimoto, Masataka Ariu, Kaito・Kawabata, Yosuke・Inamori, Takaya・Sakai, Shin-ichiro Kawakatsu, Yasuhiro・Funase, Ryu
SA6000054044	C-1	Estimation of the spacecraft's position by applying Phase-Only Correlation to the images of the asteroid's surface	Takao, Yuki・Saiki, Takanao・Ogawa, Naoko・Tsuda, Yuichi
SA6000054045	C-2	Autonomous image based navigation algorithm of Hayabusa2 for approach phase to the asteroid and its verification utilizing actual captured images	Terui, Fuyuto・Ogawa, Naoko・Mimasu, Yuya
SA6000054046	C-3	Evaluation of Orbit Determination Accuracy in Consideration of the Impulse Maneuver for Hayabusa2	Taniguchi, Sho・Ohnishi, Takafumi・Ogawa, Naoko・Nishiyama, Kazutaka Mimasu, Yuya・Ichikawa, Tsutomu・Takeuchi, Hiroshi・Tsuda, Yuichi Yoshikawa, Makoto
SA6000054047	C-4	DDOR による深宇宙高精度軌道決定	竹内, 央
SA6000054048	C-5	Motion Analysis of Euler's Disk	Yamada, Katsuhiko
SA6000054049	C-6	Quaternion and 3-D Vector Space	Higashiguchi, Minoru
SA6000054050	C-7	Estimation of Attitude Angle for CubeSat by using Moon Outline Extraction	Tajima, Kensuke・Ando, Mizuki・Ogusu, Kazuya・Kitamura, Kentaro Imai, Kazumasa・Hirakoso, Nobuto

SA6000054051	C-8	Attitude Control of a Spacecraft Using Three CMGs	Yamada, Katsuhiko・Jikuya, Ichiro
SA6000054052	C-9	On Attitude Control of Microsatellite Using Shape Variable Elements	Tawara, Kyosuke・Matunaga, Saburo
SA6000054053	C-10	Development and On-orbit Verification of Attitude Control System for the Interplanetary Micro-spacecraft PROCYON	Ikari, Satoshi・Inamori, Takaya・Ito, Takahiro・Ariu, Kaito・Oguri, Kenshiro Fujimoto, Masataka・Sakai, Shinichiro・Kawakatsu, Yasuhiro・Funase, Ryu
SA6000054054	C-11	Time-Optimal Attitude Control of Spinning Solar Sail by Reflectivity Control	Oguri, Kenshiro・Furumoto, Takuro・Funase, Ryu
SA6000054055	C-12	On-board Orbit Determination by Asteroid Observation in Deep Space	Kawabata, Yosuke・Kawakatsu, Yasuhiro
SA6000054056	C-13	Orbit Determination of Asteroid Using Spacecraft Tracking Data and Relative Navigation Data	Ikeda, Hitoshi
SA6000054057	C-14	Prolate spheroidal harmonic expansion of gravitational field	Fukushima, Toshio
SA6000054058	C-15	Construction of Asteroid Shape Model using Images of a Miniature Asteroid Replica and Its 」Verification	Ogawa, Naoko・Maruya, Makoto・Monden, Akira・Oyama, Hiroshi・Terui, Fuyuto
SA6000054059	C-16	Developing Status of Guidance and Control System for Enhanced Epsilon Launch Vehicle	Yamaguchi, Hiroyuki・Morita, Yasuhiro・Imoto, Takayuki・Yamamoto, Takayuki Saiki, Takanao・Ohtsuka, Hirohito・Tanaka, Kensaku
SA6000054060	C-17	Attitude Determination and Control of ISAS Sounding Rockets	Fukushima, Yosuke・Shida, Maki
SA6000054061	C-18	Selection and Trajectory Design to Mission Secondary Targets	Victorino Sarli, Bruno・Kawakatsu, Yasuhiro
SA6000054062	C-19	A study on trajectory design requirements for rendezvous mission to cislunar manned spacecraft	Ueda, Satoshi・Murakami, Naomi・Yamamoto, Toru
SA6000054063	C-20	Proximity approach to a deep space manned space station on EML2 halo	Sato, Yuki・Kitamura, Kenji・Hotta, Shigeki・Murakami, Naomi・Ueda, Satoshi・Yamamoto, Toru
SA6000054064	C-21	Rendezvous trajectory in the vicinity of the Space Station on EML2	Kitamura, Kenji・Sato, Yuki・Hotta, Shigeki・Murakami, Naomi・Ueda, Satoshi・Yamamoto, Toru