

Concept & Design
of a Hand-held
Mobile Robot System
for Craniotomy

Gavin J. Kane



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Concept And Design Of A Hand Held Mobile Robot System For Craniotomy

Gavin J. Kane

Concept And Design Of A Hand Held Mobile Robot System For Craniotomy:

Concept and Design of a Hand-held Mobile Robot System for Craniotomy Kane, Gavin J.,2013-10-30 This work demonstrates a highly intuitive robot for Surgical Craniotomy Procedures Utilising a wheeled hand held robot to navigate the Craniotomy Drill over a patient s skull the system does not remove the surgeons from the procedure but supports them during this critical phase of the operation

Concept & Design of a Hand-held Mobile Robot System for Craniotomy Gavin J. Kane,2013

Medical Image Computing and Computer-Assisted Intervention -- MICCAI 2009 Guang-Zhong Yang,David J. Hawkes,Daniel Rueckert,Alison Noble,Chris Taylor,2009-10-01 The two volume set LNCS 5761 and LNCS 5762 constitute the refereed proceedings of the 12th International Conference on Medical Image Computing and Computer Assisted Intervention MICCAI 2009 held in London UK in September 2009 Based on rigorous peer reviews the program committee carefully selected 259 revised papers from 804 submissions for presentation in two volumes The first volume includes 125 papers divided in topical sections on cardiovascular image guided intervention and robotics surgical navigation and tissue interaction intra operative imaging and endoscopic navigation motion modelling and image formation image registration modelling and segmentation image segmentation and classification segmentation and atlas based techniques neuroimage analysis surgical navigation and robotics image registration and neuroimage analysis structure and function

World Congress on Medical Physics and Biomedical Engineering September 7 - 12, 2009 Munich, Germany Olaf Dössel,Wolfgang C. Schlegel,2010-01-06 Present Your Research to the World The World Congress 2009 on Medical Physics and Biomedical Engineering the triennial scientific meeting of the IUPESM is the world s leading forum for presenting the results of current scientific work in health related physics and technologies to an international audience With more than 2 800 presentations it will be the biggest conference in the fields of Medical Physics and Biomedical Engineering in 2009 Medical physics biomedical engineering and bioengineering have been driving forces of innovation and progress in medicine and healthcare over the past two decades As new key technologies arise with significant potential to open new options in diagnostics and therapeutics it is a multidisciplinary task to evaluate their benefit for medicine and healthcare with respect to the quality of performance and therapeutic output Covering key aspects such as information and communication technologies micro and nanosystems optics and biotechnology the congress will serve as an inter and multidisciplinary platform that brings together people from basic research R D industry and medical application to discuss these issues As a major event for science medicine and technology the congress provides a comprehensive overview and in depth first hand information on new developments advanced technologies and current and future applications With this Final Program we would like to give you an overview of the dimension of the congress and invite you to join us in Munich Olaf D ssel Congress President Wolfgang C

Advances in Italian Robotics Giulio Rosati,Giovanni Boschetti, Giuseppe Carbone,2020-07-03 This book disseminates the latest research achievements findings and ideas in the robotics field with particular attention to

the Italian scenario Book coverage includes topics that are related to the theory design practice and applications of robots such as robot design and kinematics dynamics of robots and multi body systems linkages and manipulators control of robotic systems trajectory planning and optimization innovative robots and applications industrial robotics collaborative robotics medical robotics assistive robotics and service robotics Book contributions include but are not limited to revised and substantially extended versions of selected papers that have been presented at the 2nd International Conference of IFToMM Italy IFIT 2018

Mobile Robot Manipulator System Design for Localization and Mapping in Cluttered Environments

Chia-Sung Liu,2018 In this thesis a compact mobile robot has been developed to build real time 3D maps of hazards and cluttered environments inside damaged buildings for rescue tasks using visual Simultaneous Localization And Mapping SLAM algorithms In order to maximize the survey area in such environments this mobile robot is designed with four omni wheels and equipped with a 6 Degree of Freedom DOF robotic arm carrying a stereo camera mounted on its end effector The aim of using this mobile articulated robotic system is monitor different types of regions within the area of interest ranging from wide open spaces to smaller and irregular regions behind narrow gaps In the first part of the thesis the robot system design is presented in detail including the kinematic systems of the omni wheeled mobile platform and the 6 DOF robotic arm estimation of the biases in parameters of these kinematic systems the sensors and calibration of their parameters These parameters are important for the sensor fusion utilized in the next part of the thesis where two operation modes are proposed to retain the camera pose when the visual SLAM algorithms fail due to variety of the region types In the second part an integrated sensor data fusion odometry and SLAM scheme is developed where the camera poses are estimated using forward kinematic equations of the robotic arm and fused to the visual SLAM and odometry algorithms A modified wavefront algorithm with reduced computational complexity is used to find the shortest path to reach the identified goal points Finally a dynamic control scheme is developed for path tracking and motion control of the mobile platform and the robot arm with sub systems in the form of PD controllers and extended Kalman filters The overall system design is physically implemented on a prototype integrated mobile robot platform and successfully tested in real time

Design of Cooperative Mobile Robot

System Youngchul Na,2002

Mobile Robotics in Healthcare

Nikos Katevas,2001

Design of a Mobile Robotic

Platform for Research in Group Robotics

Jagan N. Seshadri,2002

Development and Evaluation of Alternative

Concepts for Interactive Control of Robot Aided Craniectomies in Neurosurgery

Victor Cesar Vargas da Silveira Cunha

Cruz,2013-10-08

Design and Optimization of a Three-fingered Robot Hand

Nasim Jafargholibeik,University of Ontario Institute of Technology,2011 Humanoid robots have proven to be very useful and could revolutionize the way humans live Knowing human anatomy and behaviour helps improve a robotic mechanisms ability to perform human tasks The following thesis introduces the concept of a threefingered robot hand and its driving mechanism The hand includes two fingers and a thumb Using the concept of an under actuated system each finger consists of three revolute joints which are

driven by two actuators and tooth belt transmission system The thumb has two joints but only one joint is active and actuated by one motor The passive joint is designed to set the initial position of the thumb on the piano key if necessary Required angle of rotation for each joint has been calculated through Inverse Kinematics Once the fingertip presses the piano key it should apply 1N force to play a note Force Sensing Resistors at each finger tip as a control method are introduced to the system to accurately measure the amount of applied force from the finger tip on the key and increase the angle of rotation of the motor if needed Stress and deformation of the joints have been studied through Finite Element Analysis A prototype model consisting of a single finger was built to better understanding the functionality of the concept Analysis of this model led to necessary modification of the transmission system and some design revisions to each link Genetic Algorithm using MATLAB was used to optimize the performance Index of a finger Finally the hand assembly including all the components and driving mechanism was constructed and experimented in the playing mode *Design and Development of a Teleoperated Mobile Robot Equipped with a Robotic Arm and Vision System* James Mark Crew (Jr.),2024

The Enigmatic Realm of **Concept And Design Of A Hand Held Mobile Robot System For Craniotomy**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Concept And Design Of A Hand Held Mobile Robot System For Craniotomy** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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Concept And Design Of A Hand Held Mobile Robot System For Craniotomy Introduction

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