



# Swept Source Optical Coherence Tomography Swept Source Optical Coherence Tomography

**Roger F. Steinert, David Huang**



## **Swept Source Optical Coherence Tomography Swept Source Optical Coherence Tomography:**

*Atlas of Swept Source Optical Coherence Tomography* Zofia Michalewska, Jerzy Nawrocki, 2017-03-14 This atlas presents an overview of Swept Source Optical Coherence Tomography OCT and its implications on diagnostics of vitreous retina and choroid As the sensitivity of OCT imaging devices has increased updated technologies have become available for engineers scientists and medical specialists to adopt and recent developments have led to the creation of a new generation of devices The aim of this resource is to explain this new technology and its advantages over previous imaging devices and to illustrate how it may be used in to define eye diseases aid in their treatment and facilitate treatment options Swept-source Optical

Coherence Tomography Kelvin Y. C. Teo, Chee Wai Wong, Andrew S. H. Tsai, Daniel S. W. Ting, 2015 Swept-source Optical Coherence Tomography Kelvin Yi Chong Teo, Andrew Shih Hsiang Tsai, 2018 *Swept-source Optical Coherence*

*Tomography: A Color Atlas* Kelvin Yi Chong Teo, Chee Wai Wong, Andrew Shih Hsiang Tsai, Daniel Shu Wei Ting, 2015-06-19 This book is written for retinal specialists and clinicians with a special interest in retinal diseases It presents a collection of images and brief annotations of the microstructures of both the normal and diseased eye captured on swept source optical coherence tomography The swept source OCT is a relatively new form of imaging and is able to capture structures and details which previous generations of OCT machines cannot This type of imaging represents the forefront in ocular imaging

*SWEPT SOURCE OPTICAL COHERENCE* Luoqin Yu, 2017-01-26 This dissertation Swept Source Optical Coherence Tomography System Development for Bioimaging Applications by Luoqin Yu was obtained from The University of Hong Kong Pokfulam Hong Kong and is being sold pursuant to Creative Commons Attribution 3.0 Hong Kong License The content of this dissertation has not been altered in any way We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation All rights not granted by the above license are retained by the author Abstract Optical coherence tomography OCT is an imaging modality with strengths in high resolution label free and noninvasive which strategically fills the gap between ultrasound and microscopy and is superior for some biomedical applications Swept source OCT SS OCT improves system simplicity and sensitivity compared to previous versions of time domain OCT TD OCT because of a static reference mirror and has faster imaging speed compared to spectral domain OCT SD OCT because of a single photodetector and the availability of high repetition rate broadband lasers Furthermore functional spectroscopic OCT SOCT analyzes materials according to their specific optical properties at different wavelengths Thus by utilizing an ultra wide band OCT and analyzing the sub band images it provides us a spectroscopic way to recognize materials These kinds of newly developed OCT systems are quite promising in clinical bioimaging applications One of the most commonly used swept sources in SS OCT systems is the Fourier domain mode locked FDML laser It has a narrow instantaneous linewidth that improves imaging range a broad sweeping range that renders high resolution fast building up time that enables fast scanning and a proper output power However traditional FDML lasers have limited sweeping range because of a limited amplification window of the gain

medium that is usually unable to achieve an ultra wide wavelength range. It hinders its way in spectroscopic imaging applications. Nevertheless, multi band illumination can break through the bandwidth limitation of single band SOCT. Consequently, developing swept sources with various output wavelength ranges is of high interest. The FDML lasers with output at 10 m range are most suitable in water rich tissues where water dispersion and absorption are minimized. Thus 10 m FDML laser cavities are firstly proposed with different amplification schemes to compare their performances. Dual and tri band SS OCT systems for SOCT application are further investigated for contrast enhancement and differentiation of materials such as lipid and porcine artery. Not only the output wavelength ranges of swept sources are of big concern, the swept speed is another bottleneck yet to be surpassed especially for endoscopic applications. As the mechanical inertia of FDML lasers will limit the fundamental A scan rate to hundreds of kilohertz, an ultrafast mode locked laser together with inertia free optical time stretch mechanism is a promising alternative for SS OCT endoscopic application. It has long imaging range and allows an A scan rate up to more than ten megahertz. We further demonstrated this kind of amplified optical time stretch AOT OCT with extensional application by endoscopic imaging. In summary, the goal of this thesis is to develop and extend SS OCT systems in different aspects for various bioimaging applications. The SS OCT systems with different advantages are proposed for spectroscopic and endoscopic imaging.

**Subjects** Imaging systems in medicine

**Optical coherence tomography**

**Full Range Swept-Source Optical Coherence Tomography with Ultra Small Fiber Probes for Biomedical Imaging** Youxin Mao, 2010

**Full Field Swept Source Optical Coherence Tomography** James Fergusson, 2013

Optical Coherence Tomography (OCT) is a non invasive volumetric imaging technique that offers micron scale resolution over several millimetres of depth penetration in tissue. The aim of the project was to develop Full Field Swept Source OCT (FFSSOCT) charting the specifications of the system throughout and drawing comparisons with available Fourier domain OCT (FDOCT) systems. A super luminescent diode (SLD) light source was tuned to different optical frequencies using an acousto optical tunable filter. The successive optical frequencies were distributed across the sample in parallel and the sequential interference spectra were recorded with a high speed digital camera. Using a 5mW optical source at 850nm, 70dB sensitivity was ultimately achieved in a single five second acquisition, improving the original performance by 5dB and increasing acquisition and processing time significantly. Ex vivo retinal images of rat and tree shrew were recorded with multiple layers visible. All software was custom written in Labview, improving the user interface and processing time over the existing Matlab code. To enhance the performance of the system, the camera was subsequently upgraded from 15 to 45% quantum efficiency and from 250k to 1.3M pixels. The light source was also upgraded to 20mW. The software was improved with spectral processing and dispersion compensation. 85dB sensitivity was ultimately achieved. Further ex vivo retinal images were taken showing comparative image quality to those of the same retinal samples recorded with FDOCT. Further attempts to increase

the system performance were limited by internal reflections and interfering surfaces within the FFSSOCT design leading to saturation of the digital camera In vivo imaging was attempted using software based phase jitter compensation Improvement could be seen with simple reflecting structures *Chip Based Common-path Swept-source Optical Coherence Tomography Device* Lantian Chang,2016 Development of Phase Stabilized Swept Source Optical Coherence Tomography for Biomedical Imaging and Sensing Ravi Kiran Manapuram,2012 **Swept Source Optical Coherence Tomography System Development for Bioimaging Applications** □□□,2015 **High-speed Phase-stable Swept Source Optical Coherence Tomography** Yuye Ling,2018 We thus came up with an idea of applying the compressive sensing CS to reduce the data size Currently we have demonstrated some preliminary results with using CS on reference k clock channel compression In the future we will apply the same theory to compress the sample channel data especially or time lapse OCT imaging Atlas of Swept Source OCT and OCT Angiography Youxin Chen,Xianzhao Peng,2023-03-01 The aim of this book is to explain this new technology and its advantages over previous imaging devices and to illustrate how it may be used in to define eye diseases and in their treatment and facilitate treatment options This atlas introduces the technical principles of SS OCT imaging OCTA stratification algorithm and blood flow quantization Through a collection of images and annotation of the microstructures of both the normal fundus and diseased eyes for example vitreous related disease retinal diseased and choroidal disease captured on SS OCT to deepen the understanding of this new technology as well as the interpretation of images This atlas serves as a practical guide and is written for retinal specialist and clinicians with an interest in retinal diseases

*Swept-source Optical Coherence Tomography Angiography Alleviates Shadowing Artifacts Caused by Subretinal Fluid* Michael Reich,Daniel Böhringer,Kai Rothaus,Bertan Cakir,Felicitas Bucher,Moritz Claudius Daniel,Stefan Johann Lang,Wolf A. Lagrèze,Hansjürgen Agostini,Clemens Lange,2020 Wavefront Sensorless Adaptive Optics Swept-Source Optical Coherence Tomography at 1060nm Sujin Tom Lee,2015 Optical Coherence Tomography OCT has revolutionized modern ophthalmology providing depth resolved images of the retinal layers in a system that is suited to a clinical environment A limitation on the performance and utilization of the OCT systems has been the lateral resolution whereas the axial resolution is a function of the light source the lateral resolution is dependent on the delivery optics In this thesis a compact lens based OCT system is presented that is capable of imaging the different retinal layers at a cellular lateral resolution with the combination of wavefront sensorless adaptive optics with dual variable optical elements The central operating imaging wavelength of the wavelength swept OCT engine was 1060nm close to the dispersion minimum of water and the vitreous humor in the eye A commercially available variable focal length lens is utilized to correct for a wide range of defocus commonly found in patient s eyes and a multi actuator deformable lens for aberration correction to obtain near diffraction limited imaging at the retina A parallel processing computational platform permitted real time image acquisition and display Cross sectional images of the retinal layers and en face images of the cone photoreceptor mosaic acquired in vivo from

research subjects are presented

**Spectral Domain Optical Coherence Tomography in Macular Diseases** Carsten H. Meyer, Sandeep Saxena, Srini Vas R Sadda, 2016-11-21 This book aims to build concepts and create a solid foundation in the field of optical coherence tomography OCT for the general ophthalmologists as well as for the resident trainees and fellows The chapters are written by leading international authorities in a style comprehensible to a broad audience Numerous clinical pictures and SD OCT scans help elucidate various clinical entities OCT is the optical analog of ultrasound imaging and has emerged as a powerful imaging technique that enables non invasive in vivo high resolution cross sectional imaging in retinal tissue A new generation spectral domain optical coherence tomography SD OCT technology has now been developed representing a quantum leap in resolution and speed achieving in vivo optical biopsy i e the visualization of tissue architectural morphology in situ and in real time This book encompasses the role of SD OCT in both medical and surgical macular disorders The book is meant coherent and comprehensive for both vitreoretinal specialists as well as general ophthalmologists

*Endoscopic Full-Field Swept-Source Optical Coherence Tomography Neuroimaging System* Ilan Felts Almog, 2018

**Anterior Segment Optical Coherence Tomography** Roger F. Steinert, David Huang, 2008 High speed anterior segment optical coherence tomography OCT offers a non contact method for high resolution cross sectional and three dimensional imaging of the cornea and the anterior segment of the eye As the first text completely devoted to this topic Anterior Segment Optical Coherence Tomography comprehensively explains both the scientific principles and the clinical applications of this exciting and advancing technology Anterior Segment Optical Coherence Tomography enhances surgical planning and postoperative care for a variety of anterior segment applications by expertly explaining how abnormalities in the anterior chamber angle cornea iris and lens can be identified and evaluated using the Visante OCT trademark Inside Anterior Segment Optical Coherence Tomography Dr Roger Steinert and Dr David Huang along with 14 of the field s leading professionals provide a wealth of useful clinical and physiological material about this new diagnostic imaging technique Valuable images are included to assist in the pre and postoperative assessment of various anterior segment disorders Additionally this unique resource contains detailed information on biometric measurements to enhance diagnostic capability On the leading edge of anterior segment imaging this book covers Mapping of corneal thickness and keratoconus evaluation Measurement of LASIK flap and stromal bed thickness Visualization and measurement of anterior chamber angle and diagnosis of narrow angle glaucoma Measuring the dimensions of the anterior chamber and assessing the fit of intraocular lens implants Visualizing and measuring the results of corneal implants and lamellar procedures and Imaging through corneal opacity to see internal eye structures With the increase in popularity of anterior chamber imaging and anterior segment OCT proving to be the best tool for high resolution biometry Anterior Segment Optical Coherence Tomography is a must have for anterior segment refractive cornea and glaucoma surgeons

**Optical Coherence Tomography in Glaucoma** Jullia A. Rosdahl, 2021-09-25 A comprehensive and user friendly guide on leveraging OCT for the management of

glaucoma Optical coherence tomography OCT is a noninvasive diagnostic imaging modality that enables ophthalmologists to visualize different layers of the optic nerve and retinal nerve fiber layer RNFL with astounding detail Today OCT is an instrumental tool for screening diagnosing and tracking the progression of glaucoma in patients Optical Coherence Tomography in Glaucoma by renowned glaucoma specialist Jullia A Rosdahl and esteemed contributors is a one stop unique resource that summarizes the clinical utility of this imaging technology from basics to advanced analyses The book features 14 chapters starting with introductory chapters that discuss development of OCT and its applications for visualizing the optic nerve and macula In chapter 5 case studies illustrate OCT imaging of the optic nerve RNFL and macula in all stages of glaucoma from patients at risk to those with mild moderate and severe diseases The next chapters cover the intrinsic relationship between optic nerve structure and function the use of structure function maps and examples of their relationship followed by a comparison of commonly used devices and a chapter on artifacts Anterior segment OCT is covered next followed by chapters covering special considerations in pediatric glaucomas and in patients with high refractive errors The final chapters cover innovations in OCT on the horizon including OCT angiography swept source OCT and artificial intelligence Key Highlights Illustrative case examples provide firsthand clinical insights on how OCT can be leveraged to inform glaucoma treatment In depth guidance on recognizing and managing artifacts including case examples and key technical steps to help prevent their occurrence Pearls on the use of OCT for less common patient scenarios such as pediatric glaucomas and high refractive errors Future OCT directions including angiography swept source and the use of artificial intelligence This practical resource is essential reading for ophthalmology trainees and ophthalmologists new to using OCT for glaucoma The pearls examples and novel topics in this book will also help experienced clinicians deepen their knowledge and increase confidence using OCT in daily practice

**High Speed Swept Source Optical Coherence Tomography Handheld Instrument at 1310nm for Point-of-care Imaging** Patrick Wai-Kit Yiu, 2018 Optical coherence tomography OCT is a novel biomedical imaging technique that functions as a type of optical biopsy by using low coherence interferometry to non invasively generate high resolution cross sectional images of tissue in real time OCT has become a standard diagnostic tool in ophthalmology and investigators have demonstrated OCT in a variety of biomedical applications including cardiology gastroenterology dermatology and urology Recent research advances in swept source lasers have enabled swept source OCT SS OCT to achieve imaging speeds 50x faster than commercially available spectral domain OCT SD OCT systems This thesis describes the design of a handheld SS OCT instrument for portable real time imaging in situ at the point of care Traditional OCT devices require bulky table mounted systems but the handheld device has the potential to be used as an advanced point of care diagnostic instrument in primary care settings or intraoperatively The combination of the wide scanning angle in the handheld and the high imaging speed of SS OCT could allow for screening of pathology with a single volumetric data set spanning the areas of interest on the patient The compact easy to use form factor could enable the

adoption of SS OCT in settings like primary care clinics or the surgical theater where space is limited Emergent applications can include intraoperative assessment of kidney transplant viability as many donor kidneys suffer ischemic insult while awaiting transplant and there is a critical clinical need for a reliable real time assay to evaluate donor kidney viability and predict post transplant outcome     Vitreoretinal Disorders Glenn Yiu, 2018-05-28 This book discusses the newest trends concepts and advancements in the management of vitreo retinal conditions The field of retina is rapidly changing with new advances ranging from stem cell therapy gene therapy and editing new drug targets novel delivery systems and innovative technologies in advanced ocular imaging and surgical techniques The goal is to provide a way to update practitioners and trainees on how the field of retina is changing Areas of focus include new technologies particularly in ocular imaging and vitreo retinal surgery major new clinical trials particularly those that are shifting practice patterns or addressing novel therapies and novel research that is altering the classification and diagnosis of retinal conditions as well as management strategies and prognostic predictors for vitreo retinal diseases This volume is essential reading for generalist and specialist ophthalmologists and useful for residents and fellows training in various subspecialties



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