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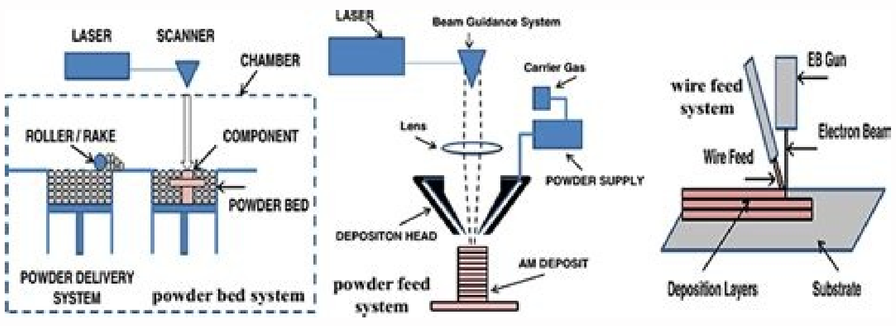

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MODELLING AND SIMULATION OF T SHAPED TUBE HYDROFORMING PROCESS

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Abstract
Tube Hydroforming is a process of forming closed-section, hollow parts with different cross-sections by applying combined internal hydraulic forming pressure and end axial compressive loads or feeds to force a tubular blank to conform to the shape of a given die cavity. It is one of the most advanced metal forming processes and is ideal for producing seamless, lightweight, near net shape components.. This innovative manufacturing process offers several advantages over conventional manufacturing processes such as part consolidation, weight reduction and lower tooling and process cost. To increase the implementation of this technology in different manufacturing industries, dramatic improvements for hydroformed part design and process development are imperative. The current design and development of tube Hydroforming processes is plagued with long design and prototyping lead times of the component.

The tube Hydroforming process is a relatively complex manufacturing process; the performance of this process depends on various factors and requires proper combination of part design, material selection and boundary conditions. Due to the complex nature of the process, the best method to study the behavior of the process is by using numerical techniques and advanced explicit finite element (FE) codes. In this work-branch components were formed using a tube Hydroforming In this work, T-branch components were formed using a tube Hydroforming, the processes were simulated using ANSYS AUTODYN explicit FEcode using the same experimental boundary, loading conditions and the simulation results were compared with the Commercial available component.

Keywords: Hydroforming Process, Tube Hydroforming Process, Finite Element Modeling (FEM), Deformation behaviour, Friction.

1. Introduction
Form complex shapes. Tubes are formed into the desired shapes using internal pressure usually obtained by various means using hydraulics, viscous media, elastomers, polyurethane, etc. and axial compressive loads simultaneously to force a tubular blank to conform to the shape of a given die cavity. Compared with conventional metal forming processes, tube Hydroforming has the merits of a reduction in work piece cost, tool cost and product weight. Furthermore, it can improve structural stability and increase strength and stiffness of the

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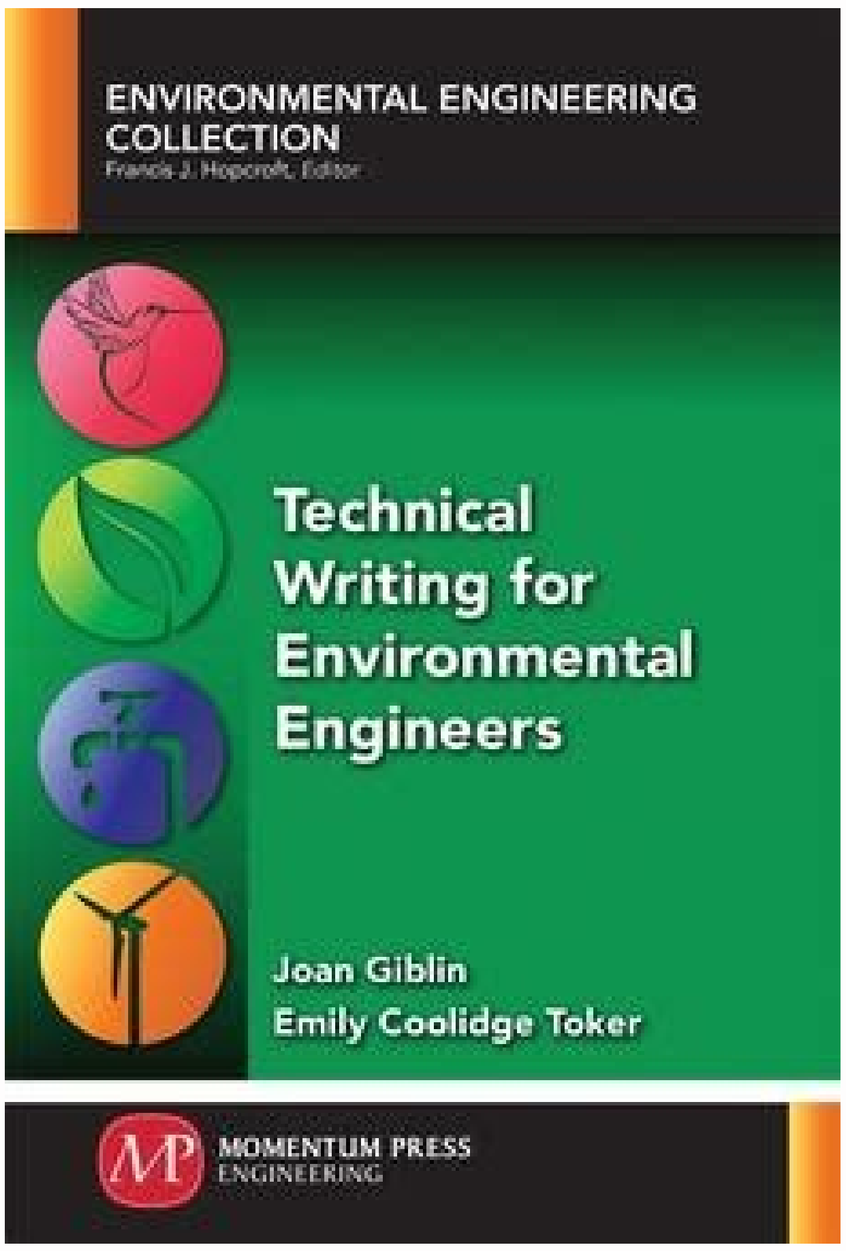

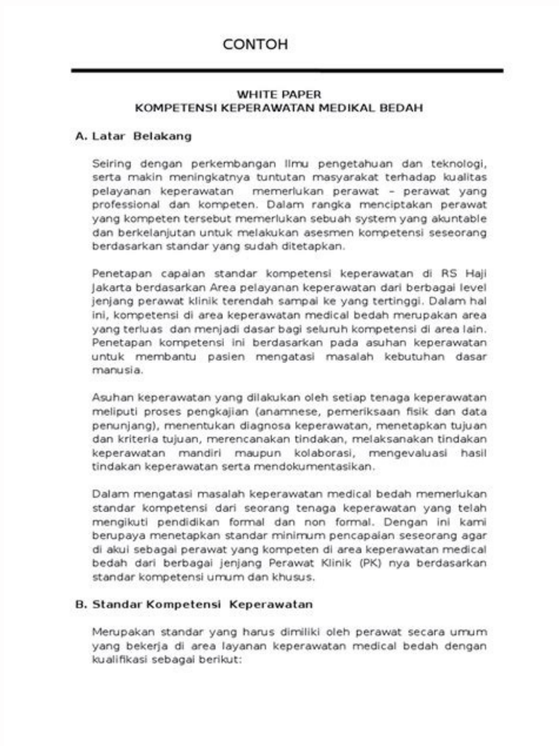

CONTOH

WHITE PAPER
KOMPETENSI KEPERAWATAN MEDIKAL BEDAH

A. Latar Belakang

Seiring dengan perkembangan Ilmu pengetahuan dan teknologi, serta makin meningkatnya tuntutan masyarakat terhadap kualitas pelayanan keperawatan memerlukan perawat – perawat yang professional dan kompeten. Dalam rangka menciptakan perawat yang kompeten tersebut memerlukan sebuah system yang akuntable dan berkelanjutan untuk melakukan asesmen kompetensi seseorang berdasarkan standar yang sudah ditetapkan.

Penetapan capaian standar kompetensi keperawatan di RS Haji Jakarta berdasarkan Area pelayanan keperawatan dari berbagai level jenjang perawat klinik terendah sampai ke yang tertinggi. Dalam hal ini, kompetensi di area keperawatan medical bedah merupakan area yang terluas dan menjadi dasar bagi seluruh kompetensi di area lain. Penetapan kompetensi ini berdasarkan pada asuhan keperawatan untuk membantu pasien mengatasi masalah kebutuhan dasar manusia.

Asuhan keperawatan yang dilakukan oleh setiap tenaga keperawatan meliputi proses pengkajian (anamnese, pemeriksaan fisik dan data penunjang), menentukan diagnosa keperawatan, menetapkan tujuan dan kriteria tujuan, merencanakan tindakan, melaksanakan tindakan keperawatan mandiri maupun kolaborasi, mengevaluasi hasil tindakan keperawatan serta mendokumentasikan.

Dalam mengatasi masalah keperawatan medical bedah memerlukan standar kompetensi dari seorang tenaga keperawatan yang telah mengikuti pendidikan formal dan non formal. Dengan ini kami berupaya menetapkan standar minimum pencapaian seseorang agar di akui sebagai perawat yang kompeten di area keperawatan medical bedah dari berbagai jenjang Perawat Klinik (PK) nya berdasarkan standar kompetensi umum dan khusus.

B. Standar Kompetensi Keperawatan

Merupakan standar yang harus dimiliki oleh perawat secara umum yang bekerja di area layanan keperawatan medical bedah dengan kualifikasi sebagai berikut:

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The Impact and Application of 3D Printing Technology

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Abstract: 3D printing also known as Additive manufacturing technology has been dubbed the next big thing and be as equally wide spread as cellular telephone industry. 3D printers print objects from a digital template to a physical 3-dimensional physical object. The printing is done layer by layer (Additive manufacturing) using plastic, metal, nylon, and over a hundred other materials. 3D printing has been found to be useful in sectors such as manufacturing, industrial design, jewellery, footwear, architecture, engineering and construction, automotive, aerospace, dental and medical industries, education, geographic information systems, civil engineering, and many others. It has been found to be a fast and cost effective solution in whichever field of use. The applications of 3D printing are ever increasing and it's proving to be a very exciting technology to look out for; In this paper we seek to explore how it works and the current and future applications of 3D printing.

Key words: 3D printing, additive manufacturing, printing layers, applications, technology, cost effective

1. Introduction

3D printing or additive manufacturing is a process of making a three-dimensional solid object of virtually any shape from a digital model. Successive layers of material are laid down in different shapes. Traditional machining techniques rely on the removal of material by methods such as cutting or drilling whereas 3D printing layers are added successively [1] [6] [7]. Thus it uses a layering technique where an object is constructed layer by layer until the complete object is manufactured. In this way 3D printing moves us away from the mass production line to a one-off customizable production [17]. You can literally make any object from a house to a bar of chocolate, so to say.

The initial 3D printers were used in the 1980s where a pattern submerged in a liquid polymer would be traced by a computer. The traced pattern hardened into a layer, thanks to the laser, and that was how you built an object out of plastic [9]. Since then tremendous progress has been made in additive manufacturing such that material extrusion is now used. By this method, an object is built out of master that is pushed from a mechanical hand like the way an inkjet printers extrudes ink onto paper [9].

Interestingly, the cost of acquiring 3D printers has been decreasing with the advancement of technology. Domestic usage of 3D printers has been on the rise with the average cost ranging from a few hundreds of dollars going up. However, one major drawback is that it requires expertise to print 3D objects [10]. In fact, it requires a competent person to make both the digital file and the final printing. Commercial usage of 3D printers has been on the increase too [16] in sectors such as the automotive industry and aero-space engineering. Spare parts, for example, are being made in the automotive and aero-space industry leading to improved economies of scale. 3D printing is changing how the production line in industries works which made some analysts to dub the emergence of 3D printers as the second Industrial revolution.

3D printing has also had a tremendous usage in the field of medicine; from the field of Bionics, to Prosthetics to Digital Dentistry. Inevitably, this is positively affecting and changing every aspect of medicine [2]. Most of the work is still in its exploratory phase but pundits predict medicine of tomorrow is going to be revolutionized by the integration of 3D printing as a tool.

2. How it works

As shown in figure 1, 3D printing starts by making a virtual design of the object you want to create. The virtual design is used as a template of the physical object to be created. This virtual design can be made using a 3D modelling program such as CAD (Computer Aided Design) to create a design from scratch. Alternatively a 3D scanner can be used for an existing object. This scanner makes a 3D digital copy of an object and puts it into a 3D modelling program.

Figure 1: 3D objects and digital model

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Journals on additive manufacturing.

Porosity has a significant effect on their compressive mechanical properties. Protocols and procedures for new methods must be included in detail for the reproducibility of the experiments. Financial supports are generally in the form of grants, royalties, consulting fees and others. In this regard, more references will be needed.- The conference paper must be cited.- The order in which the authors' names listed on the conference paper can be changed, but no new names can be added to and no existing names can be removed from the author list in the Extended Conference Paper.- A PDF copy of the conference paper must be submitted along with the submission of the Extended Conference Paper.- The format and style of an Extended Conference Paper is similar to the ones of an Original Article. Usage of non-English words should be kept to a minimum and all must be italicized, with the exception of "e.g." and "i.e." If you have concerns about the level of English in your submission, please ensure that it is proofread before submission by a native English speaker or a scientific editing service.Types of submissionInternational Journal of Bioprinting accepts original articles, reviews, letters, editorials, commentaries, perspectives and position papers. Informed consent should be obtained from patients or parents before the experiments start and should be mentioned in this section.EthicsEthics information include IACUC permit numbers and/or IRB name, if applicable. Submissions exceeding the suggested requirements, such as total manuscript length, will still be processed for consideration and peer review. Compared with existing commercial methods such as Squassh and CellProfiler, our AD-GAN can effectively and efficiently distinguish nuclei with the preserved shape and location information. In this work, different types of porous structures: Triply periodic minimal surface-Schwarz primitive (P), body centered cubic, and cubic pore-shaped (CPS) hydroxyapatite scaffolds with ∼70% porosity were fabricated through digital light processing (DLP) 3D printing technology. R. Our data suggest that 3D-printed splinting is feasible, and patient satisfaction ratings were similar for 3D-printed and thermoplastic splints. Authors are advised to limit such usage to the minimum. info'. 82 Views, 164 Downloads Author Guidelines Before submitting for publication, please check that your manuscript has been prepared in accordance to the step-by-step instructions for submitting a manuscript to our online submission system.Manuscript FormatYour manuscript should be in MS Word. 56, 445–453 (2014).CAS Article Google Scholar Kurz, W. & Polonis, D. Effect of cooling rate on Ti–Cu eutectoid alloy microstructure. This study developed a design criterion for patient-specific reconstructed implants for various mandibular continuity defects applicable for AM to further clinical use. 59, 6133–6144 (2011).CAS Article Google Scholar Okamoto, H. Laser powder bed fusion (LPBF), which is a typical additive manufacturing technique, offers tremendous advantages in fabricating medical devices with personalized geometric shape and complex porous structure. The potential and limitations of using PBF for these materials in biomedical applications are also elucidated with focus on the perspectives from processes, materials, and designs. However, a thorough mechanical behavior evaluation is required before conducting animal studies and clinical research using these scaffolds. If the referred article has more than three authors, list only the first three authors and abbreviate the remaining authors as the italicized 'et al.' (meaning "and others"). Although there is no file-size limitation imposed, authors are highly encouraged to compress their figures to an ideal size without unduly affecting the legibility and resolution of figures. F. Trace carbon addition to refine microstructure and enhance properties of additive-manufactured Ti–6Al–4V. Its management and monitoring can provide immense benefits, especially for bed-ridden patients. The fabricated sensor patch has a sensitivity of 7.1 ohm/pH for wound pH levels. 20, 1700952 (2018).Article Google Scholar Carroll, B. No macroscopic cracks were found when they were subjected to strain up to 50%. However, please take note that the Editorial team strives to ensure the peer review process is fair and unbiased and hence, there is no guarantee that a recommended reviewer will be approached to perform the peer review. In this perspective article, the emerging research of PBF of [illegible]-Ti alloys is covered. Fundamentals of Solidification 3rd edn (Trans Tech Publications, 1989).Fulcher, B. 323 Views, 646 Downloads Original Articles Wound healing is a complex and dynamic regeneration process, wherein the physical and chemical parameters are continuously changing. Hexagonal martensite decomposition and phase precipitation in Ti–Cu alloys. 661, 126–135 (2016).CAS Article Google Scholar Zhu, Y.-Y., Tang, H.-B., Li, Z., Xu, C. Metal alloys for fusion-based additive manufacturing. Dear ColleaguesNear-field electrospinning and melt electrowriting offer new possibilities to build 3D shapes from polymeric nano- or microfibers. Please ensure the names of such files contain 'suppl. Trans. It should also be set against a white background. Most microcracks occurred at conjunctions, whereas few of them appear on the struts. Solid State Mater. Authors should specify the intended recipient of the letters, i.e. Editor-in-Chief or specific author(s).This manuscript type typically has 2 tables and figures in total, no more than 10 references, and 2,000 words (inclusive of References). et al. Bioprinting is defined as the use of 3D printing technology with materials that incorporate viable living cells or biological elements to produce tissue or biotechnological products.We are interested in the scientific topics spanning all stages of bioprinting process from concept creation to fabrication and beyond. & Brook, G. Failure to do return a completed form will result in a delay to editorial and peer review progress. Some examples:Negotiation research spans many disciplines[3,4].This result was later contradicted by Becker and Seligman[5].This effect has been widely studied[1–3,7].Personal communications and unpublished works can only be used in the main text of the submission and are not to be placed in the Reference section. Hence, controlling the droplet impact velocity and droplet volume in sub-nanoliter bioprinting is critical for viability and proliferation of printed human primary cells. Commonly, the Editorials are the official opinions of the editors of the journal or special issue.An Editorial should not exceed 1,000 words (inclusive of References). Nevertheless, the new title and new abstract must retain the 'motivation, methods and conclusions' of the paper presented at the conference presentation. Variant selection in laser melting deposited α + β titanium alloy. The results showed that the factors affecting the bending properties were the layer thickness, printing speed, filament feeding speed, and HA content, successively. 481, L20–L23 (2009).CAS Article Google Scholar Cardoso, F. 132, 82–95 (2017).CAS Article Google Scholar Kok, Y. Knowledge generated in these researches must be related to bioprinting.The journal publishes original research articles on basic and applied research as well as associated social implications of this research. Opin. Submissions will be evaluated on a case-by-case basis.This manuscript type typically has 5 tables and figures in total, approximately 20 references, and 3,000 words (inclusive of Abstract and References).Methods: Methods articles present new or improved version of experimental methods, tests or procedures pertaining to the field of bioprinting.This manuscript type typically has 10 tables and figures in total, approximately 30 references, and 5,000 words (inclusive of Abstract and References).Letters to the Editor-in-Chief/Authors: Letters to the Editor-in-Chief/Authors consist of comments from reader(s) about individual articles. Smithells Metals Reference Book 7th edn (Butterworth-Heinemann, 1992).Zhang, E., Wang, X., Chen, M. Zhang, D. 777, 712–716 (2019).CAS Article Google Scholar Zhu, Y., Liu, D., Tian, X., Tang, H. All figures must have a brief title (also known as caption) that describes the entire figure without citing specific panels, followed by a legend, defined as description of each panel. We developed herein an end-to-end model called Aligned Disentangled Generative Adversarial Network (AD-GAN) for 3D unsupervised nuclei segmentation of CLSM images. Please note that all authors must view and approve the final version of the manuscript before submitting.AbstractArticles must include an abstract containing a maximum of 200 words. Despite advances in the bioprinting systems, there is a poor understanding of how the viability of primary human cells within sub-nanoliter droplets is affected during the printing process. A. Unfortunately, such information has not been fully translated and delivered to researchers due to the lack of effective cell segmentation methods. J., McDonald, S. Authors who submit their papers for publication by International Journal of Bioprinting agree to have the CC BY 4.0 license applied to their work, and that anyone is allowed to reuse the article or part of it free of charge for any purpose, including commercial use. Validated quality assessment tools for current splinting are lacking, and further investigation is necessary. This work reports a low-cost, flexible, and fully printed on-skin patch sensor to measure the change in pH and fluid content in a wound. Potential topics for this Special Issue include, but are not limited to, the following:The latest developments in functional biomaterials for AM processes;Novel 3D/4D printing techniques and technologies for the fabrication of high-quality biobased products;Theoretical and experimental research, knowledge, and new ideas in design for functional bioproducts using AM technology;Mathematical modeling or numerical simulation to predict/optimize the functionality of AMed biomaterials;Development in characterization methods for AMed biomaterials Posted: 2022-04-15 More... References should follow the following pattern: Author(s), followed by year of publication, title of publication, abbreviated journal name in italics, volume number, issue number in parenthesis and lastly, page range. In this work, GNC was prepared on a titanium sheet by magnetic field-assisted scanning jet electrodeposition. 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In order to allow unrestricted reuse of article content and remove the barriers of mining article content for research, the new commercial CC BY 4.0 license will replace the default Creative Commons Attribution-NonCommercial 4.0 International License (CC BY-NC 4.0) that has been in use since the inception of the journal.International Journal of Bioprinting publishes accepted manuscripts under Creative Commons Attribution 4.0 International License (CC BY 4.0). & Caram, R. Manuf. This study provides a general guidance for the fabrication and selection of porous bone scaffolds processed by DLP 3D printing. The CLSM images collected from fibrous scaffold-based culturing A549, 3T3, and HeLa cells were utilized for nuclei segmentation study. Dent. Des. Examples of references for different types of publications are as follows;JournalsJournal article (print) with one to three authors:Younger P, 2004, Using the internet to conduct a literature search. 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Authors are advised to refer to the section on Supplementary Figures for such submissions.TextThe text of the manuscript should be in Microsoft Word or Latex. After the abstract, please give 5 keywords; please avoid using the same words as those already used in the title, separate terms with a semi-colon (term1; term2; term3).Section HeadingsPlease number the section headings (e.g. 1, 2, 3, 4, etc.) in boldface. For contact, email address of at least one corresponding author must be included. 428 Views, 856 Downloads Original Articles In this randomized controlled pilot trial, we compared three-dimensional (3D)-printed made-to-measure splints to conventional custom-made thermoplastic splints. PDF Supp.File Supp. Sci. The microstructure evolution, mechanical properties, as well as the degradation behavior are also discussed. Videos may be included in this section.In-text citationsReference citations in the text should be numbered consecutively in superscript square brackets. 117, 371–392 (2016).CAS Article Google Scholar StJohn, D. This will also speed up the process of uploading in the submission system, if necessary.The Editor-in-Chief and Publisher reserve the right to request from author(s) the high-resolution files and unprocessed data and metadata files, should the need arise at any point after manuscript submission for reasons such as production, evaluation or other purposes. medRxiv. 32, 4608–4613 (2011).CAS Article Google Scholar Xu, W., Lui, E. 288 Views, 576 Downloads 576 Downloads Original Articles The building parameters of three-dimensional (3D) printed polylactic acid/hydroxyapatite (HA) composite bone plates were optimized by an orthogonal experiment, and the effects of the layer thickness, printing speed, filament feeding speed, and HA content on the bending strengths of the specimens were analyzed. Biomaterials currently have a wide range of applications in biomedical engineering, bioimplants, biosensors, packaging industry, etc. The influences of powder characteristics and process parameters on formation quality are described systematically. More data in the form of tables and figures should be added. Please read this section further for the definition of each type and select the appropriate option in the submission system. Melt electrowriting can be used to draw microfibers fibers from a solution or a melt through an electrostatic field and to deposit them with high accuracy.This special issue is open to new theoretical and experimental findings related to near-field electrospinning, melt electrowriting and related techniques for applications in biotechnology and biomedicine, such as printing scaffolds for tissue engineering and cell culture, producing mesh implants, microfluidic channels, and others. Figures include photographs, scanned images, graphs, charts and schematic diagrams. This section is not for supplementary figures. All figures should be legible in print form and of optimal resolution. A photopolymerizable acrylic resin has been used, and the effect of the addition of 0.1wt% of graphene (G); graphene oxide (GO) and graphite nanoplatelets (GoxNP) on printability and polymerization have been investigated. J Adv Nurs, 60(1): 1–9. Berkeley Linguistics Society, Berkeley, 12–13.Conference proceedings (from electronic database):Wang T, Cook C and Derby B, 2009, Fabrication of a glucose biosensor by piezoelectric inkjet printing. Due to their lower modulus, [illegible]-Ti alloys have the potential to reduce ⁂stress shielding.⁂ Powder bed fusion (PBF), a category of additive manufacturing, or more commonly known as 3D printing techniques, has been used to process [illegible]-Ti alloys. article (online) with more than three authors:Hargreave M, Jensen A, Nielsen T S S, et al., 2015, Maternal use of fertility drugs and risk of cancer in children — A nationwide population-based cohort study in Denmark. An increase in the cell concentration results in slower impact velocity, which leads to higher viability of the printed cells and improves the printing outcome by mitigating droplet splashing. Appeal requests must be made in writing to editor@whioce.com with detailed reasons for the appeal and point by point responses to the reviewers remarks. The detection of intracellular reactive oxygen species (ROS) and the concentration of nickel ions, indicate that the antibacterial property of GNC are not entirely derived from the nickel ions released by the coating and the intracellular ROS induced by nickel ions, but rather are due to the synergistic effect of nickel ions and GO. CopyrightThe authors shall retain the copyright of their work but allow the Publisher to publish, copy, distribute, and convey the work.LicenseNOTE: Starting from Volume 7 Issue 3 (2021), all articles published by International Journal of Bioprinting will be licensed under Creative Commons Attribution 4.0 International License (CC BY 4.0). O. The cover letter is confidential and will be read only by the editors. A new method of preparing GO-loaded nickel (GNC) with excellent antibacterial property is proposed in this paper. Authors should be listed according to the extent of their contribution, with the major contributor listed first. Characterization of microstructure and mechanical properties of laser melting deposited Ti–6.5Al–3.5Mo–1.5Zr–0.3Si titanium alloy. 59, 4907–4921 (2011).CAS Article Google Scholar StJohn, D. The antibacterial performance of GNC was proven by agar plate assessment and cell living/dead staining. The propensity of GO to agglomeration makes it difficult to apply it effectively. JOM 70, 1670–1676 (2018).CAS Article Google Scholar Wang, J. Do not use footnotes or endnotes as a substitute for a reference list. In Proc. Beta-titanium ([illegible]-Ti) alloys are a class of materials that have received increased interest in the biomedical field due to their relatively low elastic modulus and excellent biocompatibility. No Abstract is required.Reports: A Report summarizes the execution of a collaborative research program that is directly related to the advancement of bioprinting. L., Coelho, A. Please remember to label all figures (e.g. axis, etc.) and add captions below the figure, as required. Acta Mater. It tackles a problem and states its important regarding with the significance of the study. 768, 97–113 (2018).CAS Article Google Scholar Li, Z., Li, J., Zhu, Y., Tian, X. If necessary, the initial disclosure statement provided by the authors will be subject to edits for grammar corrections by the editors. Examples of such activities could include personal or work-related relationships, events, etc. Building on such information, we can rapidly screen cell-scaffold interaction in terms of adhesion, migration and proliferation, so as to improve scaffold design. It should not be redundant or similar to the content of the results section.ConclusionPlease use the conclusion section for interpretation only, and not to summarize information already presented in the text or abstract.Conflict of InterestAll authors are required, at the time of submission, to declare all activities that have the potential to be deemed as a source of competing (commercial) interest in relation to their submitted manuscript, as consistent with the recommendations from the International Committee of Medical Editors (ICMJE). & Sweet, E. The worst mandible strength was filtered based on the material mechanics and results from segmental bone length, thickness, and height statistics from the established database containing mandible images of 105 patients. Int J Cancer, 136(8): 1931–1939. 536–555 (2012); F., Williams, S. To tackle this problem, this paper proposes a three-dimensional (3D) printable multi-layer design that models the hand with the layers of skin, tissues, and bones. H., Qian, M., Easton, M. Key Eng. Finally, future trends and potential research topics are highlighted. In a clinical setting, we evaluated their general applicability and possible benefits for immobilization in hand surgical patients. However, there is a lack of knowledge regarding the effect of GBNs on the polymerization reaction. Compression testing results indicate that trabecular tantalum scaffolds demonstrate ductile deformation and excellent mechanical reliability. In 23rd Solid Freeform Fabrication Symp. In addition, the CPS scaffolds also performed the most active cell metabolisms as compared to other two structures, which may account for the larger pore size and smaller curvature of the substrate. Articles focusing on the practical applications of 3D-printed products are similarly welcome.Examples of relevant topics include but are not limited to:Information technologies and basic researchMedical scanning and imaging for printable formatData security and validation in medical additive manufacturingLogistic management in bioprintingMass customization design methodology or platform technologyBlueprint for organ printingAutomated algorithm for 3D modelling of bioprintable filesResearch models (e.g. cancer, pre-surgical evaluation, etc.)Materials and formulationNew material and method of preparationHybrid and composite material systemEvaluation technologies for bioprinting process and bioprinted productBiomimetic and bioinspired design and material systemInteraction of processing and materialsPost-processing of bioprinted medical constructsCell source and biotechnology for additive manufacturingCell source researchLarge-scale or high throughput cell culture techniquesTissue spheroid research (modelling, analysis, measurement, biological observation, characterization)Interaction of cell-material3D Bioprinting technologiesBioprinting technologies or 3D printing techniques for direct manipulation of cells and biological elementsNew printing systems or new printing methodologyOptimization methodology New design and fabrication paradigmHybrid approach in medical additive manufacturingInformation technologies and software inArchitectural designReal time and non-invasive monitoring techniquesMaturation techniques of printed constructBioreactor for printed constructApplied research purpose & evaluation of 3D printed productsImplants and prostheticsBioprintingBiological tissue model for toxicology testing, drug delivery, drug production-relatedScaffold for tissue engineeringRegenerative medicineMedical imaging purposes (e.g. 3D-printed probes)Bionic organOrgan printingPersonalized drugBiomodels for surgical training and planningExoskeletonFurther optimisation/advantages/limitationsEducationAssociated social implicationsEthicsEconomic relationships and shiftsPolicies and regulationIntellectual property (IP-copyright, design protection, patents, and trademarks), licensingBusiness (e.g. chain supply, management)Environmental impactCommunity sentiments to 3D-printed products (e.g. healthcare providers, users, etc.) All manuscripts submitted to International Journal of Bioprinting will follow the following procedure:Initial submission is reviewed by in-house editors to ensure adherence to journal policies and for double-blind reviewEditor-in-chief decides on the manuscript to be sent out for review process and assigns the manuscript to one of the editors according to the particular topic.Editor assigns reviewers from inside the editorial board or outside depending on the topic.After evaluations by the reviewers have been received, the editor-in-chief makes one of the following recommendations: accept, minor revision, major revision, reject and resubmit, and reject.If decision is minor revision, the authors have 7 days to resubmit the revised manuscript.If decision is major revision, the authors have 14 days to resubmit the revised manuscript.Upon resubmission, the same procedure is applied as for the initial submission.Authors may appeal for a rejected submission. & Emmelmann, C. & Watt, T. article with more than three authors:Wu S, Sun P, Li R, et al., 2020, Epidemiological Development of Novel Coronavirus Pneumonia in China and Its Forecast. Stereolithography (SLA) shows the highest accuracy and the lowest anisotropy, which has facilitated the emergence of new applications as dentistry or tissue engineering. & Hou, B. Affiliations should contain the following core information: department, institution, city, state, postal code, and country. These letters must be constructive and contribute to the development of individual articles published or the entire journal. M., Ferrandini, P. Authors being referenced are listed with their surname followed by their initials. Antibacterial effect of copper-bearing titanium alloy (Ti–Cu) against Streptococcus mutans and Porphyromonas gingivalis. Any corrections to a paper are published at the sole discretion of the editors.Cover letterAll submissions should include a cover letter as a separate file. The length of the manuscript cannot be more than 50,000 characters (inclusive of spaces), or approximately 7,000 words.Nomenclature for genes and proteinsThis journal aims to reach researchers all over the globe. & Brandt, M. In this work, a thermal inkjet system is utilized to dispense sub-nanoliter cell-laden droplets, and two key factors ⁂V droplet impact velocity and droplet volume ⁂V are identified to have significant effect on the viability and proliferation of printed cells. The maximum stress values of the reconstructed implant and the remaining bone were not obviously reduced but the stress values were far lower than the material ultimate strength. The different mandible continuity defects include C (from left to right canines), B (from 1st premolar to 3rd molar), and A (from 3rd molar to ramus) segments defined based on the mandible image. Decisions on appeals are final without exception.For all manuscripts accepted for publication, the peer review process will be deemed to be completed. This information should be included in a subheading labelled "Ethics Statement" in the "Methods" section of the manuscript file, in as much detail as possible.ResultsThis section can be divided into subheadings and focuses on the results of the experiments performed.DiscussionThis section should provide the significance of the results and identify the impact of the research in a broader context. The file name should allow for ease in identifying the associated manuscript submitted.Tables, lists and equationsTables created using Microsoft Word table function are preferred. Mater. All corresponding authors should be identified with an asterisk. & He, B. Anisotropy and heterogeneity of microstructure and mechanical properties in metal additive manufacturing: a critical review. Typically, an Abstract is not required and only one figure/table is allowed.Book Reviews: Book Reviews provide an overview of new publications (books) from the area of bioprinting. All supplementary information should be submitted as a separate file in Step 4 during submission. Likewise, lists and equations should be properly aligned and its meaning clear to readers. The compressive properties and in vitro cell evaluations such as cell proliferation and attachment morphology of these scaffolds were systematically compared. Rep. These must be submitted in the manuscript. The purpose of abstract is to provide sufficient information for a reader to determine whether or not to proceed to the full text of the article. 244 Views, 488 Downloads Original Articles This study developed design criterion for patient-specific reconstructed implants with appearance consideration and structural optimization of various mandibular continuity defects. To overcome the disadvantage of the rigid bone layer in deformation, the tissue layer is introduced and represented by a concentric tube based structure, of which the deformability can be explicitly controlled by a parameter. Among the various bioprinting techniques, the drop-on-demand jetting approach facilitates deposition of pico/nanoliter droplets of cells and materials for study of cell-cell and cell-matrix interactions. Eng. Please insert the current contact details of the reviewer and state the reason(s) for recommendation under the "Comments for the Editor" section. M. If the DOI is available, please include it after the page range. In this study, we revealed the compressive mechanical behavior and material failure mechanism of trabecular tantalum scaffolds by compression testing, finite element analysis (FEA), and scanning electron microscopy (SEM). The journal also publishes brief commentaries and reviews. Alloys Compd. Personal communications and unpublished works should be excluded from this section. 18 Views, 36 Downloads Review Articles Laser Additive Manufacturing of Zinc Targeting for Biomedical Application Biodegradable zinc (Zn) is expected to be used in clinical application like bone tissue engineering scaffolds, since it possesses favorable biocompatibility and suitable degradation rate. Therefore, additively manufactured trabecular tantalum scaffolds can be used in bone tissue reconstruction applications. However, the availability of commercial photopolymers is still limited, and there is an increasing interest in developing resins with properties adapted for these new applications. A., Leigh, D. 87, 309–320 (2015).CAS Article Google Scholar Herzog, D., Seyda, V., Wycisk, E. In this study, the current research status and future research trends for LPBF of Zn-based implants are reviewed from comprehensive viewpoints including formation quality, microstructure feature, and performance. The massive introduction of GO on the coating was proven by energy disperse spectroscopy and Raman spectroscopy. With the proposed design, prosthetic robotic hands can be produced quickly with low cost and be customizable and deformable. Therefore, this smart behavior can be applied in the design and manufacturing of products with intended functionalities.We invite the submission of full-length papers of original research contributions, review papers, and communications that are of high quality, impact, and novelty as well as being interesting for wide audiences of scientific and technological communities. Introduction can conclude with a brief statement of the aim of the work and a comment about whether that aim was achieved.Materials and MethodsThis section provides the general experimental design and methodologies used. Five continuity mandibular defects (single B/C/A+B and combination of B+C and B+C+B segments) were restored using additive manufacturing (AM) reconstructed implant and bone plate to confirm reasonable design criterion through biomechanical fatigue testing. The weighted optimization analysis results indicated that the sizes and positions of internal supporting beams within the reconstructed C, B, and A+B implants can be defined parametrically through corresponding segmental bone length, width, and height. & Rush, M. 125, 390–400 (2017).CAS Article Google Scholar Mitzner, S., Liu, S., Domack, M. J. GO and GoxNP-loaded resins showed a great potential to be used for manufacturing structures by SLA. In addition to the 30% new material which is acquired through additional experimentation, analyses and proposal of new ideas or theories, the original content that can be found in the conference paper must be paraphrased, i.e. rewriting the sentences or changing the sentence structure. W., Pateras, A., Qian, M. In situ tailoring microstructure in additively manufactured Ti–6Al–4V for superior mechanical performance. Hence, for reviewers' and readers' ease in comprehension, authors are highly encouraged to use the appropriate gene and protein nomenclature. The deformation characteristics of the specimens were studied by 3D full-field strain analysis, and the internal defects of the specimens were analyzed. For an authored dictionary/encyclopedia, treat the source as an authored book. & StJohn, D. 139, 565–586 (2018).CAS Article Google Scholar Hayama, A. You are advised to download the template when preparing your submissions to this journal. H. Beryllium as a grain refiner in titanium alloys. Metall. The results showed that the CPS scaffolds exhibited the highest compressive strength (∼22.5 MPa) and modulus (∼400 MPa). Authors may prefer to utilize resources such as should include all figures into the manuscript and submit it as one file. No Abstract, References, figures and tables are required.Extended Conference Papers: An Extended Conference Paper is the conference paper version of an original research article that presents the new findings and in-depth discussion of a certain topic.The manuscripts that do not have relevance to the Focus and Scope of International Journal of Bioprinting will be rejected.The requirements for Extended Conference Papers are as follows:- The Extended Conference Paper must have at least 30% new material and include a citation to the conference paper. The hydration sensor results showed that moisture levels on a semi-porous surface can be quantified through resistance change. An Abstract is not required in a Position Paper.Editorials: An Editorial is a solicited, concise commentary that highlights prominent topics in particular issue. Eur J Appl Physiol, 105(1): 731–738.Journal article (online) with one to three authors:Jackson D, Firtko A and Edenborough M, 2007, Personal resilience as a strategy for surviving and thriving in the face of workplace adversity: A literature review. & Kozlov, A. Both British and American English are accepted. The title should not be more than 50 words and should be able to give readers an overall view of the paper's significance. Furthermore, a minimum droplet volume of 20 nL per spot helps to mitigate evaporation-induced cell damage and maintain high viability of the printed cells within a printing duration of 2 min. The sensor consists of different electrodes printed on polydimethylsiloxane (PDMS) substrate for pH and moisture sensing. with one to three authors:Schneider Z, Whitehead D and Elliott D, 2007, Nursing and Midwifery Research: Methods and Appraisal for Evidence-based Practice, 3rd edn, Elsevier Australia, Marrickville, NSW, 112–130.Book with more than three authorsDavis M, Charles L, Curry M J, et al., 2003, Challenging Spatial Norms, Routledge, London, 12–30.Chapter or article in bookKnowles M S, (eds) 1986, Independent study, in Using Learning Contracts, Jossey-Bass, San Francisco, 89–96.PreprintsPreprint article with one to three authors:Ulgen A, Gurkut O, Li W, 2019, Potential Predictive Factors for Breast Cancer Subtypes from a North Cyprus Cohort Analysis. The 3D splint production process needs to be optimized and other materials need to be tested before routine implementation is possible or more patients can be enrolled in further studies. An analysis of the effect of grain refinement on the hot tearing of aluminium alloys. Dear ColleaguesThis special issue is oriented to all types of design and characterization of 3D bioprinting and organ-on-chip platforms, with printed tissue models and/or miniaturized microfluidics, to approach biological and physiological parameters of the in vivo tissue counterparts. Such a bendable sensor can also be easily incorporated in a wound dressing. For listing items within the main body of the manuscript, please use Roman numbers in parenthesis (e.g. (i), (ii), (iii), (iv), etc.).Supplementary filesThis section is optional and contains all materials and figures that have been excluded from the entire manuscript. Patient comfort and satisfaction were assessed with questionnaires at splint fitting, as well as 2 and 4⁂V6 weeks later. The disclosure should also include all sources of revenue paid (or promised to be paid) directly to authors or their institution on your behalf over the 36 months before submission of the relevant work. Failure to comply with the conflict of interest disclosure statement requirement may result in rejection of the submissions.FundingAuthors should declare all financial and non-financial support that have the potential to be deemed as a source of competing interest in relations to their submitted manuscript in this section. 46, 404–419 (2014).Easton, M., Wang, H., Grandfield, J., StJohn, D. The 3D splints were designed and printed in-house with polylactic acid from a 3D surface scan. These materials, figures or additional information are relevant to the manuscript but remain non-essential to readers' understanding of the manuscript's main content. Typically, this manuscript type has 15 references.Perspective Articles: Perspective Articles contain author's personal opinions on a subject/topic. As the porosity decreased from 85% to 65%, the compressive yield strength and elastic modulus increased from 11.9 MPa to 35.7 MPa and 1.1 GPa to 3.0 GPa, respectively. The application of functional biomaterials can provide a unique capability to fabricate active products that can transform from one state/shape to another. However, article processing charges will differ in exceptional cases (e.g. a raw text file exceeding 2MB, etc.) The article processing charge will then be determined on a case-by-case basis.Original Articles: Original Articles are scientific articles based on original, basic and applied research and/or analysis.This manuscript type typically has 5 tables and figures in total, approximately 40 references, and 7,000 words (inclusive of Abstract and References).Review Articles: A Review Article summarizes and highlights recent developments and current/future trends of the field.This manuscript type typically has 5 tables and figures in total, approximately 70 references, and 7,000 words (inclusive of Abstract and References).Short Communications: Short Communications are short articles that present original and significant findings on a particular problem or novel findings that is anticipated to have significant impact.The length of a Short Communication, including the Abstract and References, should not exceed 4,000 words. The proposed design first obtains the 3D surface model of a target hand via 3D scanning, and then generates the 3D bone models from the surface model based on a fast template matching method. Posted: 2022-03-29 More... & Dargusch, M. C 29, 1023–1028 (2009).CAS Article Google Scholar Williams, J. Recent advances in grain refinement of light metals and alloys. The effects of different combinations of the process parameters on the cross-sectional shape of the single deposited line, printing temperature, and pressure of the molten material were further analyzed. The manuscript will proceed to be copyedited, layout edited and proofread before being published online.Note: You may suggest up to four academically qualified reviewers for consideration. The FE analysis found that the weight variation percentage between the parametric designed implants and original core solid implants in the C, B, and A+B was reduced by 54.3%, 63.7%, and 69.7%, respectively. The experimental results show that the proposed design outperforms previous designs remarkably. Adv. Authors who have nothing to declare are encouraged to add "No conflict of interest was reported by all authors" in this section.During submission, the Conflict of Interest statement should be included in both the cover letter and manuscript (beneath the Acknowledgments section).Authors will be requested to complete ICMJE form for Disclosure of Potential Conflict of Interest when they are invited to submit a revision. The Interdependence Theory: the relationship between grain formation and nucleant selection. All references should be numbered (e.g. 1, 2, 3, etc.) and sequenced according to the order they appear as the in-text citations. Microstructure and deformation behavior of Ti–6Al–4V alloy by high-power laser solid forming. C., Taggart, R. 20, 13–24 (2016).ADS CAS Article Google Scholar Schmid-Fetzer, R. This may increase the difficulty of the design process and lower the flexibility of the fabricated hand. Special attention will be given but will not be limited to the development of biocompatible hydrogel polymer bio-inks and microsystems engineering setups to achieve relevant functional tissues, by having understanding on material science and technological applications. Any corrections to a paper are published at the sole discretion of the editors.Corrigendum: Authors should contact the editors of International Journal of Bioprinting (editor@whicoe.com) if certain errors made by the authors are found. Technol. Titles and footnotes/legends should be concise. 30 Views, 60 Downloads Original Articles The morphologies and structures of the scaffold have a significant influence on their mechanical and biological properties. The challenges associated with the formation of equiaxed grains during additive manufacturing of titanium alloys. This is due to many benefits in both fabrication techniques, which give unique freedom in customization, and bio-based materials for developing green and sustainable products. Phase Diagrams For Binary Alloys 2nd edn (ASM International, 2010).Page 2 Nature (Nature) ISSN 1476-4687 (online) ISSN 0028-0836 (print) Articles Original Articles Current research of designing prosthetic robotic hands mainly focuses on improving their functionality by devising new mechanical structures and actuation systems. It will not be seen by reviewers. Unlike Reviews, Perspective articles may cover a more specific, narrow part of the field. 204 Views, 408 Downloads Original Articles Fibrous scaffolds have been extensively used in three-dimensional (3D) cell culture systems to establish in vitro models in cell biology, tissue engineering, and drug screening. Int. In these cases, only cite the title and year of the source in-text. It was observed that the effect depended on GBN type, functionalization and structure (e.g., number of layers, size, and morphology) due to differences in the extent of dispersion and light absorbance. The biomechanical fatigue testing indicated that all cases using the AM reconstructed implant could pass the 250,000 dynamic load. of meetings and symposiums, conference papers:Chang S S, Liaw L and Ruppenhofer J, (e

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