

# Byrne and McCutcheon on the Irish Legal System

Who Was Who. Byrne, Donn, (Brian Oswald Donn-Byrne), (20 Nov. 1889–18 June 1928), Irish novelist. Byrne, Donn, (Brian Oswald Donn-Byrne), (20 Nov. 1889–18 June 1928), Irish novelist. Legal Issues of Economic Integration. LEIE. The Irish Supreme Court, European Political Cooperation and the Single European Act. Irish Geography. Irish Geography. The lagan navigation. Dictionary of Irish Biography. Byrne, John Francis. Legal Information Management. Legal Information Management. The Irish Legal System: An Introduction.

Professor William Binchy provides a summary of the legal system in the Republic of Ireland and reflects on constitutional developments and challenges facing the country, particularly in the light of the recent economic collapse.

. International Journal of Legal Information. Int. J. of Legal Inf.. The Irish Legal System.

It is perhaps the vanity of every generation to believe that it is experiencing a unique moment of radical cultural transformation; yet there do seem grounds for believing that this is so in relation to the Irish legal system. In the past decade there have been changes, at a structural and philosophical level, of an intensity that has not previously occurred over centuries.

. Dictionary of Irish Biography. Byrne, Charles. Irish Geography. IrishGeog. The lagan navigation.

Abstract not available...

. Dictionary of Irish Biography. Byrne, Patrick. Dictionary of Irish Biography. Byrne, John. Dictionary of Irish Biography. Byrne, Seán. Dictionary of Irish Biography. Byrne, William. Dictionary of Irish Biography. Byrne, Patrick. Dictionary of Irish Biography. Byrne, Donn. Dictionary of Irish Biography. Byrne, Frank. Dictionary of Irish Biography. Byrne, Garret. Dictionary of Irish Biography. Crawford, Robert.

Dictionary of Irish Biography. Byrne, Séamus. Dictionary of Irish Biography. Byrne, Michael. Dictionary of Irish Biography. Byrne, Richard

*dax training learn to write dax book excelerator bi so you want a meade lx telescope how to select and use the lx200 and other high end models the patrick moore practical astronomy series sing to the dawn minfong ho andhra university pg grading system solution manual human computer interaction kennyz*

## **DAX TRAINING LEARN TO WRITE DAX BOOK EXCELERATOR BI**

**How many days it will take to learn DAX?** Becoming proficient with essential DAX functions is estimated to take approximately two weeks. Understanding how to make dashboards and reports takes most people three days. Publishing data findings is a skill most people learn in one day.

**How to learn DAX effectively?** The best way to learn DAX is to create some basic formulas, use it with some actual data, and see the results for yourself. The examples and tasks here use the Contoso Sample DAX Formulas.

**Should I learn DAX?** In Power BI, DAX supercharges reports and dashboards by enabling dynamically generated measures and tables from user input. The use of succinct DAX expressions can also speed up your dashboards by reducing the amount of data that needs to be loaded and analysed.

**Is learning DAX hard?** Complexity of Calculations: Simple calculations in DAX, such as summing up values or calculating averages, are relatively straightforward to learn. However, more complex calculations involving iterating over data or dealing with multiple tables may require a deeper understanding and practice.

**Is DAX similar to Excel?** DAX formulas are very similar to Excel formulas. To create one, you type an equal sign, followed by a function name or expression, and any required values or arguments.

**How to become a DAX expert?** Focus on basic calculations and aggregations. Row context and filter context are crucial concepts for creating advanced DAX formulas. Variables can simplify your expressions and make them easier to read. Get comfortable with time-based functions like CALCULATE, EARLIER, and RANKX.

**What language is DAX similar to?** Although the M language and DAX are quite similar, there are certain distinctions that limit what you can do with it.

**How do I start DAX in Excel?**

**How can I make my DAX faster?**

**How many days does it take to learn German fluently?** Learning German probably takes 30 weeks or 750 hours. Your continuous focus and determination help you complete all levels. It is possible to learn casually and slowly if your only goal is to communicate with German natives and work in German nations.

**How long does it take to learn power automate?** In our training program you will be able to learn in 30-40 hrs of instructor led training. The program provides in-depth knowledge of various features of Microsoft Power Automate and how to use them to automate business processes.

**How to become a DAX expert?** Focus on basic calculations and aggregations. Row context and filter context are crucial concepts for creating advanced DAX formulas. Variables can simplify your expressions and make them easier to read. Get comfortable with time-based functions like CALCULATE, EARLIER, and RANKX.

## **SO YOU WANT A MEADE LX TELESCOPE HOW TO SELECT AND USE THE LX200 AND OTHER HIGH END MODELS THE PATRICK MOORE PRACTICAL ASTRONOMY SERIES**

**Is Meade LX200 a good telescope?** Well worth the investment. If you have a basic inexpensive telescope and desire better optics as well as the ability to venture into astrophotography, this is a great ENTRY option. The other would be a great refractor

with equatorial mount (and binoviewer).

**How do I set up my Meade telescope?**

**How do I align my Meade LX200?**

**What is the focal length of Meade LX200?** The Meade 8" LX200 ACF features an 8" aperture, 2000mm focal length, and f/10 focal ratio with Dual-Fork Mounting.

**When did the Meade LX200 come out?** The Meade LX200 is a family of commercial telescopes produced by Meade Instruments launched in 1992 with 8" (20.32 cm) and a 10" (25.4 cm) Schmidt-Cassegrain models on computerized altazimuth mounts.

**What is better Meade or Celestron?** However, if you look at comparisons between Meade and Celestron, the general consensus of opinion is there is no real difference optically. Meade's coma corrections are in the corrector plate, Celestron Edge HD corrects theirs by putting lenses in the baffle tube. Standard Celestrons aren't coma corrected.

**How do you set up a telescope for beginners?**

**How do I connect my Meade telescope to my computer?** USB to RS232 (Serial) Adapter Cable The Meade #07507 USB to RS-232 Serial Adapter cable permits connection of any Meade telescope's RS-232 serial interface to a PC or laptop's available USB Port. This allows you to use the Meade #505 Cable or #507 cable to connect your telescope to a PC with a USB port.

**How do I use my telescope?**

**How do you align a telescope to a planet?**

**How does an alignment telescope work?** Principles of Alignment The Micro Alignment Telescope generates an optical straight line of sight from zero to infinity. This forms the basic reference from which all measurements are taken. To measure squareness or parallelism a penta prism is used to deviate the straight line through exactly 90 degrees.

### **How do you align a viewfinder with a telescope?**

**What is the aperture of Meade LX200?** The Meade 10" LX200 ACF features an 10" aperture, 2500mm focal length, and f/10 focal ratio with Dual-Fork Mounting.

### **How do you focus a Meade telescope?**

**What is a good focal length for a telescope?** Use scopes of at least 8 inches (200 mm) and focal lengths of less than a 1000 mm for faint, larger nebulae. For fainter, smaller nebulae, scopes of at least 8 inches and focal lengths of 1000 mm or more are recommended.

**Is Meade telescopes going out of business?** The company was subsequently purchased by Optronic Technologies in 2021. But Optronic encountered supply-chain challenges following the COVID-19 pandemic. As of July 12th, both Meade's and Orion's websites are still active and accepting orders.

**Is Meade a good brand?** Meade Instruments is acknowledged as one of the most innovative and dynamic companies in the telescope market.

### **What is the focal length of the Meade LX200 EMC?**

**Which telescope gives the sharpest image?** An expensive apochromatic refractor--called an apo--can give the best possible image quality and is exceptional for observing the planets, large deep-sky objects, and excels at photography. It is also the most expensive type of telescope. Even relatively small apos in the 4" to 6" range can cost thousands of dollars.

**What is the most accurate telescope in the world?** The James Webb Space Telescope is the largest, most technically advanced telescope ever built.

### **What is the highest quality telescope?**

**How much should I spend on a beginner telescope?** A good telescope is essential for getting started in astronomy, but with so many brands and models available to choose from, it's hard to pinpoint how much a good telescope costs. A good telescope costs between \$300 and \$8,000, depending on your needs and level of expertise.

**What is the best thing to see with a beginner telescope?** The Orion Nebula, the core of our Milky Way galaxy, Venus, Mars, the Sun, strange asterisms that may appear to look like coat hangers or perfectly straight lines from our perspective.

**What are the 3 main factors that should be considered when choosing a telescope?** There is no “best” telescope out there; the right one for you is the one that you will actually use! Here is some general guidance: Consider your budget, what sky objects you want to view, and where you will use your telescope (home?

**How do I set my telescope?**

**How do you use a Meade electronic digital telescope?** Aim the telescope at the target. Look at the target through the telescope's finder. Center the object in the field of view by moving the telescope up or down, and left or right. Insert a low-power eyepiece into the focuser to observe the object at low magnification.

**How do I connect my telescope to my computer?** A solution is to use a T-ring to attach a camera to your telescope and display the view on a laptop. If using a smartphone camera, try apps such as DroidCam (Android and iOS) or EpocCam (iOS).

**Are Meade telescopes good?** They are really good and if you take care of them and don't beat them up, they will last for a good 10 years or longer, depending on how you use them. It is a good idea to store them in a safe place, clean and dry. Moisture getting into the optics will eventually ruin the telescope.

**What happened to the Meade telescope company?** The company was subsequently purchased by Optronics Technologies in 2021. But Optronics encountered supply-chain challenges following the COVID-19 pandemic. As of July 12th, both Meade's and Orion's websites are still active and accepting orders.

**What is considered the best telescope?**

**What is the most accurate telescope in the world?** The James Webb Space Telescope is the largest, most technically advanced telescope ever built.

**How do I know if my telescope is good?** The most important aspect of any telescope is its aperture, the diameter of its main optical component, which can be

either a lens or a mirror. A scope's aperture determines both its light-gathering ability (how bright the image appears) and its resolving power (how sharp the image appears).

### **Which is the best company to buy telescope?**

**Did Celestron buy Meade?** Meade later declared bankruptcy and was bought by Orion Telescopes & Binoculars and is now an American company based in Watsonville, California.

**How do you clean a Meade telescope?** Organic materials (e.g., fingerprints) on the front lens may be removed with a solution of 3 parts distilled water to 1 part isopropyl alcohol.

**What is the largest Meade telescope?** The Meade LX200-ACF 16" UHTC Telescope w/ Super Giant Field Tripod is a massive, observatory telescope ideal for long exposure astrophotography or observation. The telescope features a large 16" diameter optics and Ultra-High Transmission Coatings (UHTC) for optimum image clarity and brightness.

**How do you use a Meade telescope?** Aim the telescope at the target. Look at the target through the telescope's finder. Center the object in the field of view by moving the telescope up or down, and left or right. Insert a low-power eyepiece into the focuser to observe the object at low magnification.

**How much is a decent telescope?** For those just starting in astronomy and astrophotography, a price range of \$300 to \$1,000 is standard. The first choice is whether to buy a manual telescope or a computerized unit that can help you locate and track objects.

**What is the most useful telescope magnification?** Once you have enough magnification to see the diffraction pattern clearly, further telescope magnification is "empty." Experienced planetary observers use 20x to 30x per inch of aperture to see the most planetary detail. Double-star observers go higher, up to 50x per inch (which corresponds to a ½-mm exit pupil).

**What size telescope is best for viewing planets?** The 4-inch F/10 achromat gives fine views, and its focal length makes it a good match for some of the best planetary eyepieces.

**What telescope has the best reviews?** The Celestron NexStar 5SE Schmidt-Cassegrain telescope is our top pick due to its all-around ease of use. Its primary 5-inch mirror offers crisp, intimate views of the moon and bright planets, and it provides an entry into views of distant galaxies and star clusters.

**What is the best telescope of all time?**

**Which is better, a refractor or reflector telescope?** Refractors generally have the edge over reflectors for a quality image, both from the standpoint of lens/mirror quality and precision optical mountings, and lack of central obscurations. Equally important in a choice of telescope type is the focal length and the resulting field of view.

## **SING TO THE DAWN MINFONG HO**

**Sing to the Dawn: Unraveling the Captivating Novel by Minfong Ho**

**Q: What is the central premise of "Sing to the Dawn"?**

**A:** "Sing to the Dawn" is a historical novel that chronicles the tumultuous experiences of Li-yan, a young Chinese woman who witnesses the horrors of the 1937 Nanjing Massacre. Surviving against all odds, she embarks on a journey of resilience and empowerment.

**Q: How does the novel explore the themes of war and its aftermath?**

**A:** Through Li-yan's eyes, the novel vividly portrays the brutality and devastation of war. It delves into the psychological and physical scars inflicted on survivors and examines the complexities of heroism, trauma, and forgiveness.

**Q: What makes Li-yan a compelling protagonist?**

**A:** Li-yan is a resilient and determined young woman who, despite enduring unspeakable horrors, refuses to be broken. Her courage, compassion, and



determination inspire readers to witness the transformative power of the human spirit.

**Q: How does the novel connect the past to the present?**

**A:** "Sing to the Dawn" not only sheds light on a historical tragedy but also resonates with contemporary issues of violence and social injustice. It reminds us that the lessons from the past must guide our actions in the present.

**Q: What is the significance of the novel's title?**

**A:** The title, "Sing to the Dawn," symbolizes hope and resilience. It suggests that even in the darkest of times, there is always the possibility of a brighter future. Through Li-yan's journey, the novel encourages readers to find their voices and sing for a world where peace and justice prevail.

## **ANDHRA UNIVERSITY PG GRADING SYSTEM**

**What is the grading system of Andhra University?** Andhra University follows a 10-point grading system to evaluate students' academic performance. To convert the CGPA to percentage, students can use the formula  $CGPA \times 9.5$ . The Andhra University PG CGPA to Percentage Calculator can be used to convert the CGPA to percentage quickly and accurately.

**What are the grades for PG?**

**What is PG grading system?** The PG grading system is defined by two numbers, which represent pavement temperatures. The first number PG 64-XX represents the high pavement temperature in degrees Celsius, while the second number PG XX-22 represents the low pavement temperature.

**What is the grading system in AP?** The highest grade in AP Inter grading system is A1 grade which is awarded to those who score 91 or more marks, out of 100. Those who score 81 to 90 marks are given A2 grade. B1 is given for 71 to 80 marks. B2 is awarded for those scoring 61 to 70 marks.

**What is the distinction in PG?** Percentage of marks for declaring class: Distinction 70% and above First Class 60% and above but less than 70% High Second Class 55% and above but less than 60% Second Class 50% and above but less than 55% Pass Class 40% and above but less than 50% 14.

**What is the grading scale for AP?**

**What is PG grade level?** Some schools create a Post Graduate (PG) Grade Level for students who may spend an extra year at the school after graduating.

**What is PG level?** A postgraduate diploma, postgraduate degree or Master's degree offers the student an advanced level of education in their chosen area of study. The course content is designed to build on the knowledge obtained at undergraduate degree level.

**What is considered as PG?** A postgraduate degree is one that you may study upon completion of an undergraduate degree, or, in special circumstances, significant industry experience. There are two types of postgraduate study; coursework or research.

**What is the PG binder grading system?** PG grading uses various measurements of the binder's flow properties to establish its grade, which is expressed as two numbers. For example, in "PG 64-22," the "64" represents the maximum pavement temperature, in degrees Celsius, for which this binder can be used with low traffic levels.

**What is the grading for a masters degree?**

**What is PG 70/10?** Performance Grade Bitumen 70-10 is tailored for regions characterized by mild climates and minimal temperature fluctuations. With its exceptional flexibility and crack resistance, this grade ensures the longevity of pavement surfaces even in areas with relatively low thermal stress.

**What is a 70% in AP?** Usually, a 70 to 75 percent out of 100 translates to a 5. However, there are some exams that are exceptions to this rule of thumb. The AP Grades that are reported to students, high schools, colleges, and universities in July are on AP's five-point scale: 5: Extremely well qualified.

**What is a 60% in AP?** Yes, a 60 is considered a passing grade in AP classes. In AP, the average passing rate is 60-70%.

**What GPA is a 75 in an AP class?**

**What is a PG?** PG stands for Parental Guidance. This means a film is suitable for general viewing, but some scenes may be unsuitable for young children. A PG film should not unsettle a child aged around eight or older. Parents should consider whether the content may upset younger, or more sensitive, children.

**How are postgraduate diplomas graded?** A PG Dip is comparable with a Master's degree according to the NQF, although it requires fewer UCAS Tariff Points to achieve, there are three different pass grades, which are Pass, Merit and Distinction. As the qualification is studied worldwide, the PG Dip will have different equivalencies for different countries.

**Do Masters students graduate with distinction?** A student may receive the master's degree with distinction by maintaining a 3.885 or higher GPA on all formal master's degree program coursework. The notation "With Distinction" is posted with the degree on the transcript, and also will appear on the diploma.

**How are AP grades calculated?** Your total score is calculated from your section scores. For most AP Exams, your score is a weighted combination of your scores on the 2 sections, multiple-choice and free-response. Some AP courses have assessments that include other scored components.

**How do AP scores convert to grades?** If you score a 3 or above, the College Board provides a college course letter grade equivalent. A score of 5 equates to an A or A+ in the analogous college class; a score of 4 is deemed equal to an A-, B+ or B; and a 3 is considered on par with a B-, C+ or C, according to the online score table.

**Who grades AP scores?** The multiple-choice sections of AP Exams are scored by computer. The free-response sections and through-course performance assessments, as applicable, are scored by AP teachers and college faculty who have experience teaching corresponding college courses.

**What is a PG score?** The PG Default Score is a predictive score that indicates the probability of the customer defaulting within the next 12 months. The scores range from 1 to 100, with 100 being the best (or least likely to default, file bankruptcy, etc.).

**What is PG GPA?** Grade Point Average (GPA) is the main grading systems used for postgraduate students in India.

**What is PG rating?** Rated G: General audiences – All ages admitted. Rated PG: Parental guidance suggested – Some material may not be suitable for children. Rated PG-13: Parents strongly cautioned – Some material may be inappropriate for children under 13. Rated R: Restricted – Under 17 requires accompanying parent or adult guardian.

**Is a B+ an A in AP?** Because you now get an additional 1.0 added to your GPA if you are enrolled in AP® or honors classes. Basically, if you get a B+ in AP® Chemistry, it's the same thing as getting an A in regular Chemistry. On the other hand, if your high school only uses the unweighted GPA scale, you don't need to panic.

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**What is first class in Andhra University?**

**What GPA is a 70 in AP?**

**Is a 3.7 GPA good?** A 3.7 GPA is considered to be a very good GPA and is often an indicator of strong academic performance.

**Is a 3.8 GPA good?** A 3.8 GPA is an outstanding achievement, corresponding to an A- on the letter scale. It surpasses the national average GPA reported in various studies, such as the 2016 Inside Higher Ed study which found SAT test takers' average GPA to be a 3.38.

**What is a 103 GPA to a 4.0 scale?** Well, if your percentage is more than 100, your GPA is above a 4.0. 103% of 4.0 is 4.12. So 4.12 is your GPA.

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**Is a 70% a 5 on the AP exam?** Usually, a 70 to 75 percent out of 100 translates to a 5. However, there are some exams that are exceptions to this rule of thumb. The AP Grades that are reported to students, high schools, colleges, and universities in July are on AP's five-point scale: 5: Extremely well qualified.

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**What is distinction in Andhra University?** Candidates who pass in first class without failure in any one of the subjects in the entire course of study and obtained a CGPA of 7.0 and above shall be declared to have passed in First Class with Distinction.

**What GPA gives first class?** First Class Honours - Weighted GPA of 3.60 and above. Upper Second Class Honours - Weighted GPA of 3.00 - 3.59. Lower Second Class Honours - Weighted GPA of 2.50 - 2.99. Pass - Weighted GPA of 2.00 - 2.49.

**What is the pass mark for Andhra University?** 35% as minimum pass mark and there will be no revaluation. If any candidate fails, course has to be repeated. Passing of IPR course is mandatory to award SGPA. The student should complete the course before the completion of final examination to get the pass certificate.

**Is a 2.7 GPA good?** This GPA means that you've earned an average grade of a B- across all of your classes. Since a 2.7 GPA is lower than the national average of 3.0 for high school students, it will limit your options for college. 3.95% of schools have an average GPA below a 2.7.

**What GPA is 108%?** Here's what happens when you plug it in:  $108/20 - 1 = 5.4 - 1 = 4.4$ . The GPA equivalent of 108% is 4.4.

**How to calculate middle school GPA?** Multiply the grade number by the credit points to calculate the grade points earned for each class. To calculate the GPA, divide the sum of the Grade Points a student earned by the sum of the Credit Points the student attempted.

## **SOLUTION MANUAL HUMAN COMPUTER INTERACTION KENNYZ**

### **Solution Manual for Human Computer Interaction by Kenny Z**

**Question 1:** Explain the concept of mental models in HCI.

**Answer:** Mental models are representations of how users think a system works. They help users predict the system's behavior and make decisions accordingly. In HCI, it's important to design systems that align with user's mental models to enhance usability and satisfaction.

**Question 2:** Discuss the importance of feedback in HCI.

**Answer:** Feedback is crucial in HCI because it provides users with information about their actions and the system's response. It helps users understand how the system works, make informed decisions, and correct errors. Designing effective feedback mechanisms is essential for creating user-friendly experiences.

**Question 3:** Explain the role of cognitive ergonomics in HCI.

**Answer:** Cognitive ergonomics focuses on the cognitive aspects of interaction, such as memory, attention, and reasoning. It helps HCI practitioners understand how users process information and make decisions. By applying cognitive principles, designers can create systems that are mentally accessible and easy to use.

**Question 4:** Describe the advantages and disadvantages of using heuristic evaluation in HCI.

**Answer:** Heuristic evaluation is a usability inspection method where experts evaluate a system based on a set of predefined usability principles. Advantages include its low cost, time-efficiency, and the ability to identify a wide range of

potential problems. However, it may not uncover all usability issues, and the results can be subjective and biased.

**Question 5:** Explain the concept of iterative design in HCI.

**Answer:** Iterative design is a user-centered design approach where designers create prototypes, test them with users, and refine the design based on user feedback. It allows HCI practitioners to validate their design decisions, identify areas for improvement, and ensure that the final product meets user needs and expectations.

Advances in Human-Computer Interaction. Advances in Human-Computer Interaction. Expanding Interaction Potentials within Virtual Environments: Investigating the Usability of Speech and Manual Input Modes for Decoupled Interaction.

Distributed technologies and ubiquitous computing now support users who may be detached or decoupled from traditional interactions. In order to investigate the potential usability of speech and manual input devices, an evaluation of speech input across different user groups and a usability assessment of independent-user and collaborative-user interactions was conducted. Whilst the primary focus was on a formative usability evaluation, the user group evaluation provided a formal basis to underpin the academic rigor of the exercise. The results illustrate that using a speech interface is important in understanding user acceptance of such technologies. From the usability assessment it was possible to translate interactions and make them compatible with innovative input devices. This approach to interaction is still at an early stage of development, and the potential or validity of this interfacing concept is still under evaluation; however, as a concept demonstrator, the results of these initial evaluations demonstrate the potential usability issues of both input devices as well as highlighting their suitability for advanced virtual applications.

. Human-Computer Interaction. Human-Comp. Interaction, HHCI. The Minimal Manual. International Journal of Human-Computer Interaction. International Journal of Human-Computer Interaction. Differed Risk Perception in Manual and Automated Driving: An Empirical Study of Varied Conditions. Conjuring with Computation. Human-Computer Interaction. Lecture Notes in Computer Science, Human-Computer Interaction – INTERACT 2011. Microinteractions to Augment Manual

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Tasks. User Centered System Design. There's More to Interaction Than Meets the Eye: Some Issues in Manual Input. International Journal of Human-Computer Interaction. International Journal of Human-Computer Interaction. Augmented Reality-Based Manual Assembly Support With Visual Features for Different Degrees of Difficulty. Lecture Notes in Computer Science, Human-Computer Interaction – INTERACT 2009. Exploring Manual Interaction and Social Behaviour Patterns in Intensely Collaborative Teamwork. Lecture Notes in Computer Science, Gesture-Based Human-Computer Interaction and Simulation. Sequential Belief-Based Fusion of Manual and Non-manual Information for Recognizing Isolated Signs. Human-Computer Interaction Fundamentals. Human-Error Identification in Human-Computer Interaction. Human-Computer Interaction Fundamentals. Emotion in Human-Computer Interaction. Human-Computer Interaction. Human-Computer Interaction. Advances in Human-Computer Interaction. Virtual Reality - Human Computer Interaction. Post Disaster Virtual Revival: 3D CG Manual Reconstruction of a World Heritage Site in Danger. Human-Computer Interaction. Human-Computer Interaction. Human-Computer Interaction. Proceedings of the 6th Nordic Conference on Human-Computer Interaction: Extending Boundaries. Exploration of direct bi-manual interaction in digitally mediated stop-motion animation. AHFE International, Human Factors and Systems Interaction. Ergonomic support for manual assembly through data-based assistance systems - challenges and solution ideas considering the legal framework conditions.

While automation is already well advanced in series production, manual production is still used for small batch sizes and multi-variant production. However, such workplaces also need to be modernized to produce not only economically but also sustainably. Improving ergonomic working conditions poses a challenge for work research: how can data-based assistance systems provide employees with recommendations on favourable work design while considering the tight legal framework regarding the collection of biometric data? A consortium of labour researchers from five colleges and universities, six network partners and more than 30 companies are working on this and other questions in the context of the introduction of AI solutions in the PerspektiveArbeit Lausitz structural change project (PAL). The declared aim is to support the transformation of the Lusatia coal mining region by enabling small and medium-sized enterprises to drive forward digitalization and use simple human-centred AI solutions to make work more people-friendly,



thereby increasing their competitiveness and flexibility. The prototype is to be implemented at an electronics service provider with manual PCB production. In collaboration with Mittweida University of Applied Sciences, an application is being developed to improve activity-related ergonomics at the workplace. Visual sensors at and around the workplace will capture images that are compared with data from standards, guidelines, and ergonomics methods in real time to provide a direct message at the workplace in case of negative stress (e.g. forced posture, one-sided strain, gripping space). The video-supported analysis is intended to help identify and correct ergonomically critical movement sequences and avoid them in the long term to maintain the health of employees. Mittweida University of Applied Sciences develops an application to improve ergonomics by using visual sensors to record and evaluate ergonomic factors. The video-supported analysis is intended to identify ergonomically critical movement sequences and avoid them. It is important to not only "get employees on board" in this process from the outset in the sense of "informing" them, but to "involve" them in the implementation of the project to be able to incorporate their expertise into the development and to increase acceptance of the planned project. This is because AI applications that process personal data are regulated by the GDPR and soon also by the European Union's AI Regulation, which is expected for 2024. The Works Constitution Act (§87) must also be observed. It stipulates an economical and dedicated data collection and the avoidance of unnecessary data. What exactly needs to be considered when processing personal data using AI systems and what specific technical solution the assistance system provides to protect sensitive biometric data - this content is conveyed to the employees in awareness workshops

. Human-Computer Interaction. Human-Computer Interaction. Human-Computer Interaction Fundamentals. Mental Models in Human-Computer Interaction